SERVICE MANUAL

DENON

PERSONAL COMPONENT SYSTEM

D 250

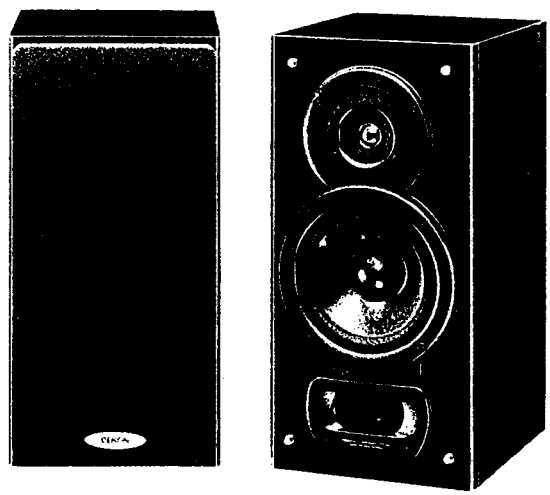
DENON

Hi-Fi Speaker System

SERVICE MANUAL

MODEL USC-250

SPEAKER SYSTEM



CAUTIONS ON USE

- The output terminals may differ according to the amplifier you are using, so read the manual of the amplifier to make sure.

Always turn the amplifier's power off before connecting the speaker systems to the amplifier.
The sound from the speaker systems depends on the size and type of room and the way the speaker systems are installed. Keep the following in mind when installing the speaker systems:

- If the low frequencies are too strong when the speaker systems are set directly on the floor, set them on a hard pedestal, etc.
- The USC-250 is an anti-magnet type speaker system which can be used near television sets, etc., but with some TV sets the colors may become blotchy. If this happens, turn off the TV's power, wait 15 to 30 minutes, and turn the power back on. The TV's self demagnetizing circuit will improve the picture.
  If the colors are still blotchy, move the speaker systems further away from the TV.
- Also note that if there is a magnet or any device generating magnetic force nearby, interaction between this device and the speaker systems can cause the colors on the TV to become blotchy.

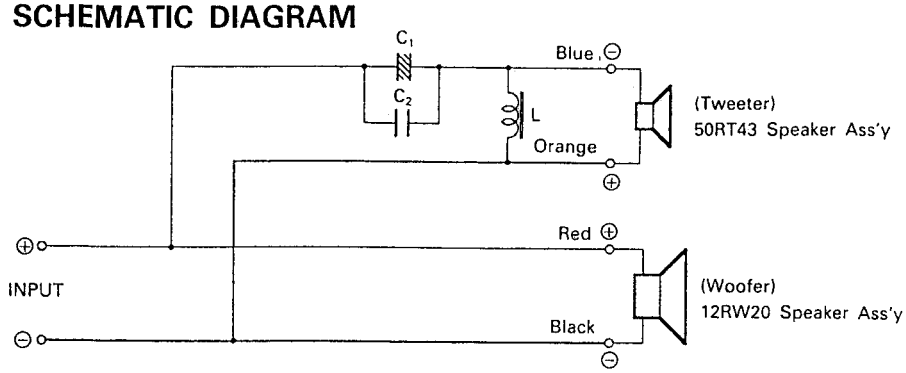
SPECIFICATIONS

Type:	2-way, 2-speaker bass reflex speakers
Speakers:	13 cm-woofer and 5 cm-tweeter
Max. allowable input:	80 W
Impedance:	6 ohms
Max. external dimensions:	181 (W) × 362 (H) × 248 (D) mm (7-1/16" × 14-1/4" × 9-49/64")
Weight:	5.2 kg (11 lbs 7 oz) × 2
	(W) = width, (H) = height, (D) = depth

- For improvement purposes, specifications and functions are subject to change without advanced notice.

NIPPON COLUMBIA CO., LTD.

SCHEMATIC DIAGRAM

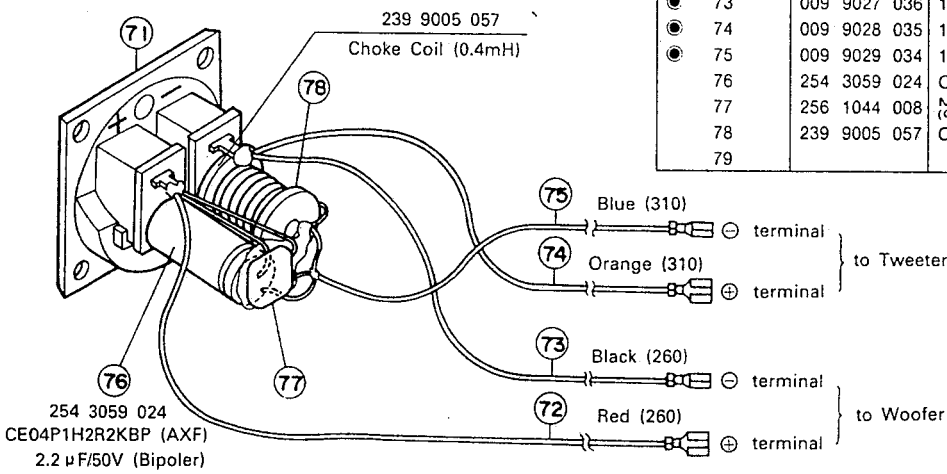


C_1 : 254 3059 024 Chemicon 2.2 μF/50V (Bipoler)
C_2 : 256 1044 008 Metalized 0.22 μF/100V (GU)
L : 239 9005 028 Choke Coil 0.4mH

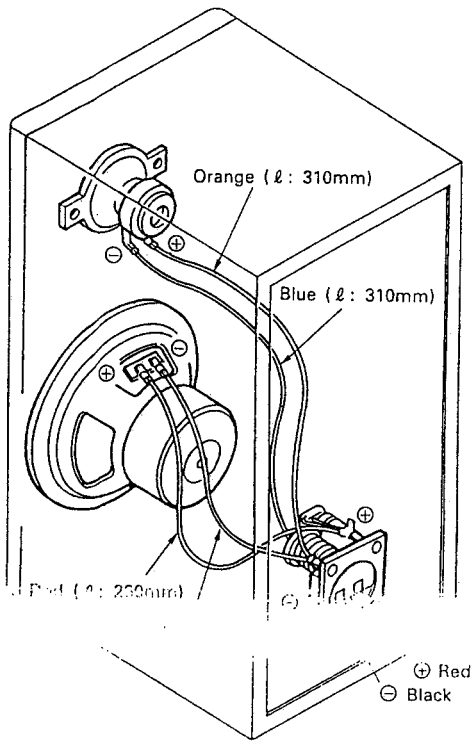
NETWORK PARTS LIST (Part No.: 3499016000)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
71	205 0585 007	2P Terminal Ass'y		2
◉ 72	009 9026 037	1P Wire Ass'y (Red)	Woofer (+) L=260	2
◉ 73	009 9027 036	1P Wire Ass'y (Black)	Woofer (−) L=260	2
◉ 74	009 9028 035	1P Wire Ass'y (Orange)	Tweeter (+) L=310	2
◉ 75	009 9029 034	1P Wire Ass'y (Blue)	Tweeter (−) L=310	2
76	254 3059 024	Chemicon 2.2μF/50V (AXF)	Bipole	2
77	256 1044 008	Metalized 0.22μF/100V (GU)		2
78	239 9005 057	Choke Coil 0.4mH		2
79				

NETWORK ASS'Y

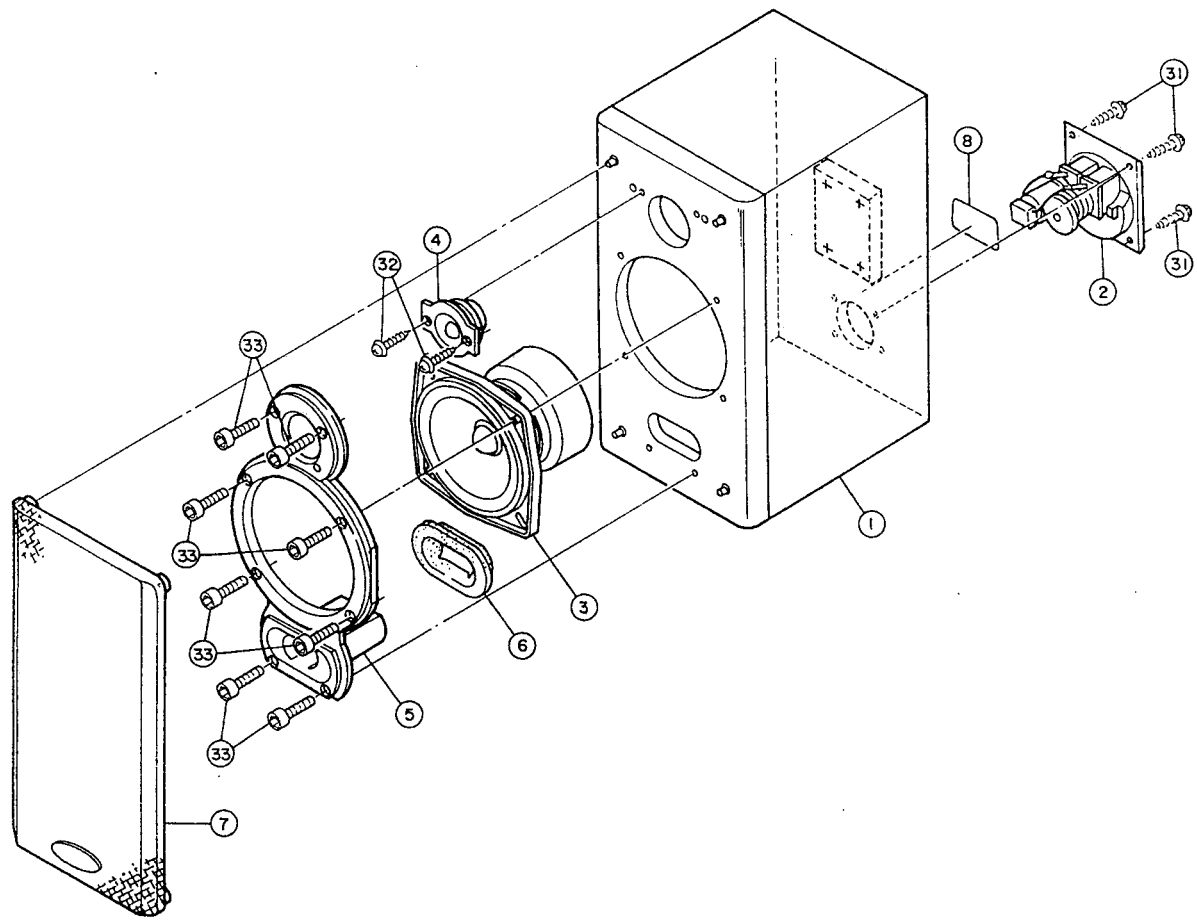


WIRE FORMING



① Set the network assembly so that the red terminal (+) is at the right side, then install it with the four 3 × 12 tapping screws.
② Connect the tweeter, the orange lead to the ⊕ side, the blue lead to the ⊖ side. (ℓ: 310mm)
③ Connect the woofer, the red lead to the ⊕ side, the black lead to the ⊖ side. (ℓ: 260mm)

EXPLODED VIEW



TE FOR PARTS LIST

Part indicated with the mark "◉" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
Ordering part without stating its part number can not be supplied.
Part indicated with the mark "★" is not illustrated in the exploded view.

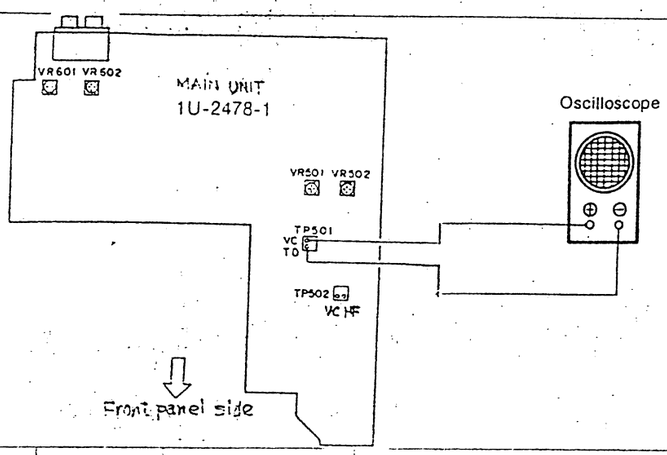
ED VIEW OF PARTS LIST

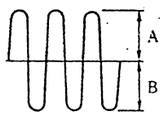
	Part No.	Part Name	Remarks	Q'ty
	GEN7450 H	Cabinet Sub Ass'y		2
	349 9016 000	Network Ass'y		2
	302 9020 000	Speaker 12RW20	Woofer	2
	304 9021 005	Speaker 50RT43	Tweeter	2
	146 9264 101	Decoration Panel		2
	129 9018 006	Urethane Spacer		2
	103 9166 105	Grille Board Ass'y		2
	513 9292 014	Rating Sheet		2
	[illegible]	Protector Sheet		[illegible]
S				
	473 0306 038	Tapping Screw (1) 3X12	Black	8

Ref. No.	Part No.	Part Name	Remarks	Q'ty
32	473 0309 022	Tapping Screw (1) 3X16		4
33	473 8020 031	Hex. Tapping Screw (1) 4X25	Black	16
34				
35				
PACKING & ACCESSORIES (not included EXPLODED VIEW)				
◉ 51	504 9118 026	Stylen Paper	1200X260	2
◉ 52	505 9122 028	Poly Cover		2
◉ 53	503 9231 007	Cushion		2
[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	Carton Case		[illegible]
57	513 9284 019	Serial No. Sheet		1
◉ 58	511 2420 007	Inst. Manual		1

(1) Tracking offset adjustment

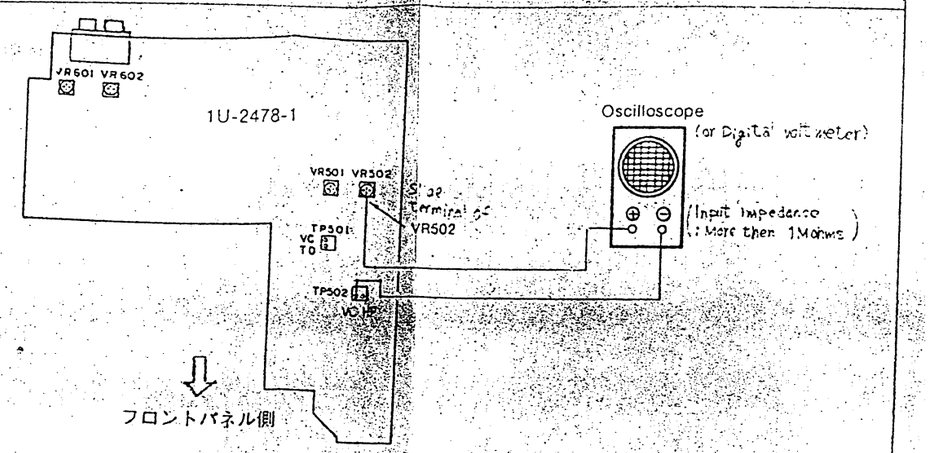
Wiring Diagram

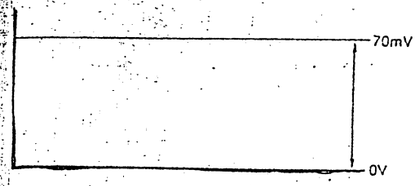


Oscilloscope (DC range)		Adjustment location	Check items	Adjustment procedure
V	H	(Control)	DC Voltmenter	
0.2V/div	1~2ms div	VR501	 A=B	1. ▲ OPEN/CLOSE Press the OPEN/CLOSE button and place an adjustment disc in the disc holder. 2. ▲ OPEN/CLOSE Press the OPEN/CLOSE button again and close the disc holder. 3. ▶ PLAY Press the PLAY button and check that the display indicates "02". 4. Adjust the VR501 "T-OFFSET" control and set the upper and lower amplitude of the waveform to be equal.

(2) Focus offset Adjustment

Wiring diagram



Oscilloscope		Adjustment location	Check items
V	H	Control	Oscilloscope
50mV/div or 20mV/div	0.2μ/div or 0.5μ/div	VR502	

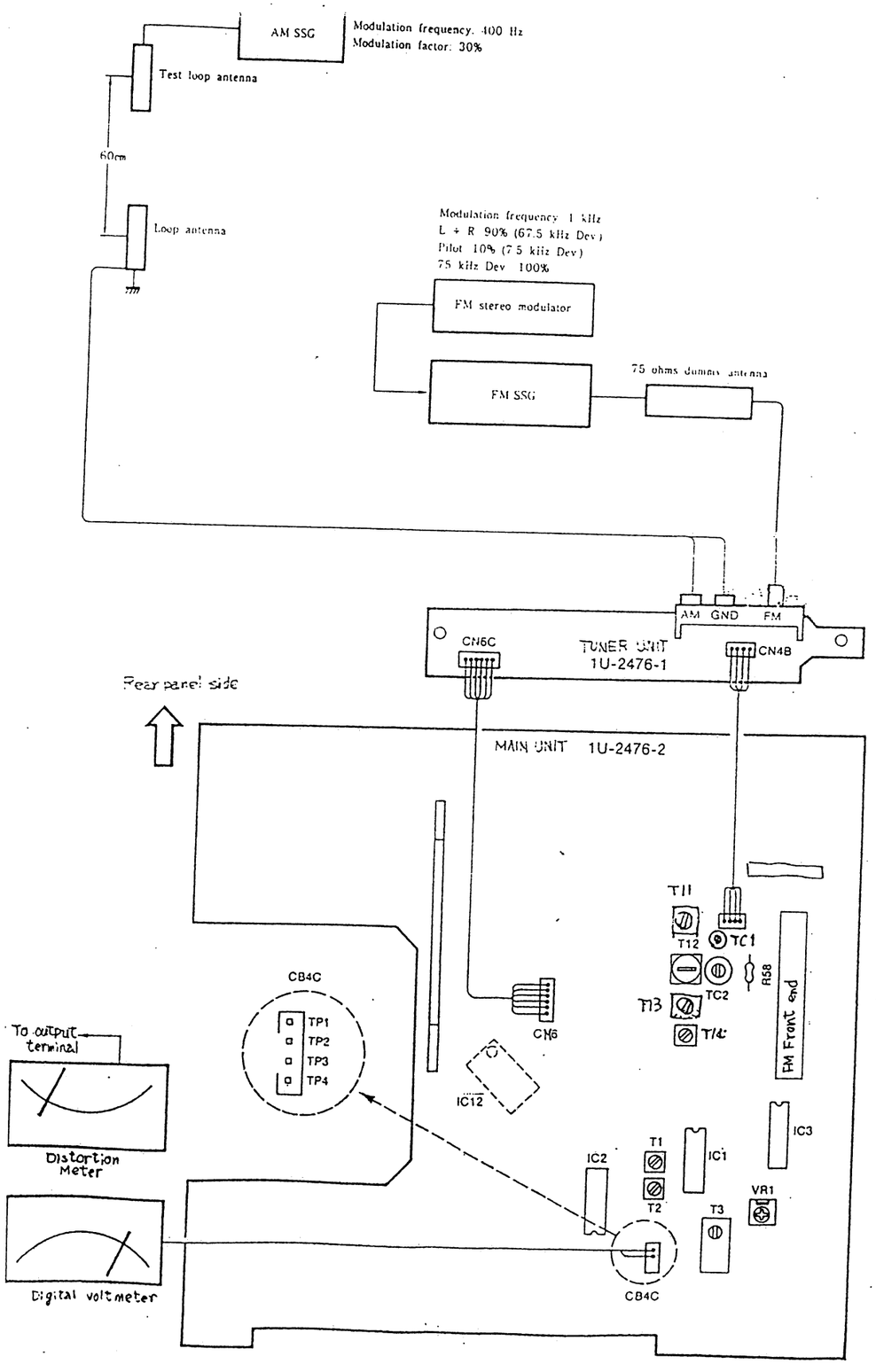
Adjustment Procedure

1. Press the ■ STOP button.
2. Check that the display of the track number indicates "03".
3. Adjust VR402 ("F-OFFSET") so that the eye pattern jitter is minimum.

(UTP-250 E2/EK)

TUNER SECTION

ADJUSTMENT



Step	Adjustment item	Tuning point (Channel setting)	Input: Measuring instrument	Input: Frequency	Input: Input level	Input: Modulation	Input: Connection location	Output: Measuring instrument	Output: Connection location	Adjustment location	Setting value	Notes
1	FM DC balance	98MHz	FM S.G.	98MHz	60dBμ	1kHz 75kHz DEV	FM antenna terminal	Tuning meter	TP.1, TP.2	T-1	Tuning meter center	Perform with mona modulation sign
2	Distortion	〃	〃	〃	〃	〃	〃	Distortion factor meter	Output jack	T-2	Minimum distortion	〃
3	Repeat Steps 1 and 2.											
4	AUTO STOP level	98MHz	FM S.G.	98MHz	22dBμ	1kHz 75kHz DEV	FM antenna terminal	Check for the lighting of TUNED	Output jack	VR-1	Input level 22dBμ ± 1dB	(Level at which TUNED lig Level at which th output is provide

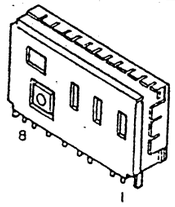
2. AM adjustment (BAND SELECT button: MW, LW)

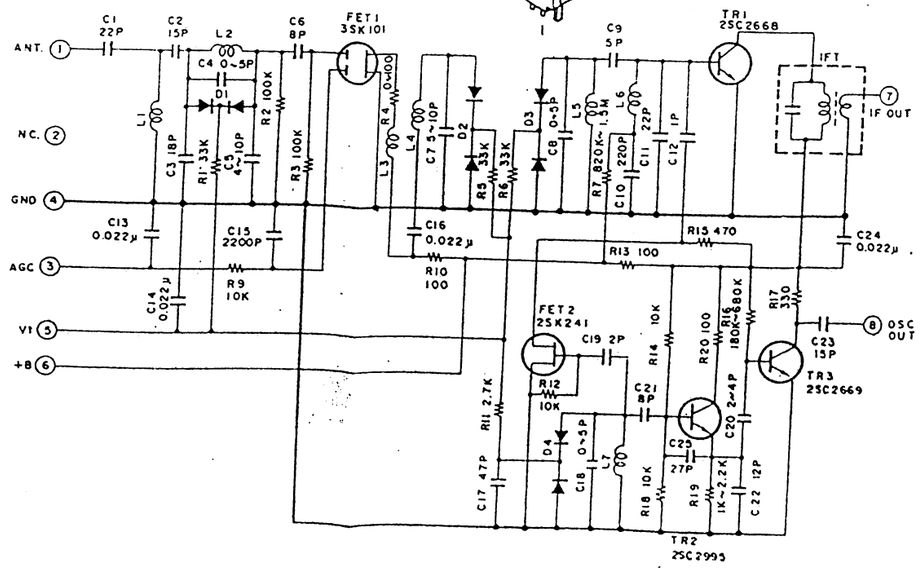
1	IF	Clear frequency (without a broadcast)	AM IF sweep	—	Level at which AGC is not applied	—	AM antenna terminal	Oscilloscope	⊕ TP.3 ⊖ TP.4	T-3	Waveform maximum and symmetry	
2	Band edge	522kHz	—	—	—	—	—	Digital voltmeter	⊕ R58 ⊖ GND	T-14	1.2V	
		1611kHz								—	Approx. 8.0V	No place to adjust
3	Band edge	153kHz	—	—	—	—	—	Digital voltmeter	⊕ R58 ⊖ GND	T-13	1.2V	
		279kHz								—	Approx. 7.0V	No place to adjust
4	Tracking	603kHz	AM S.G.	603kHz	Level at which AGC is not applied	400Hz 30%	Loop antenna	VTVM	Output terminal	T-12	Maximum output	
5	Tracking	1404kHz	〃	1404kHz	〃	〃	〃	〃	〃	TC-2	Maximum output	
6	Repeat Steps 4 and 5, and set the output to maximum.											
7	Tracking	163kHz	AM S.G.	163kHz	Level at which AGC is not applied	400Hz 30%	Loop antenna	VTVM	Output terminal	T-11	Maximum output	
8	Tracking	270kHz	〃	270kHz	〃	〃	〃	〃	〃	TC-1	Maximum output	
9	Repeat Steps 7 and 8, and set the output to maximum											

Front End
Part number: 2160079005

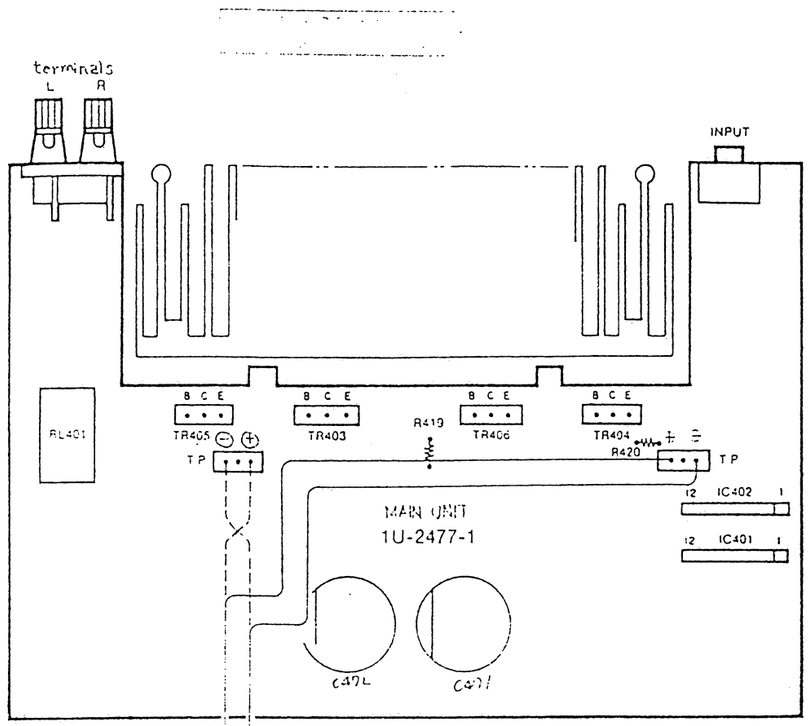
No.	Name
1	ANT
2	ANT
3	AGC
4	GND

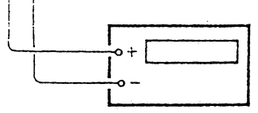
No.	Name
5	Vt
6	+B
7	IF OUT
8	OSC OUT





(UPO-250E1.E2.EK)





DC Volt Meter

IDLING CURRENT

- Setup
  1. Lay the unit at an ordinary position away from a direct current from a cooler or fan. Do the adjustment at a temperature between 15°C (59°F) and 30°C (86°F).
  2. Set controls as follows.

     POWER SWITCH → OFF ( )
     IN PUT → No signal

     SPEAKER Terminals → open: do not connect the speakers, dummy load etc.

- Adjustment
  1. Remove Top cover. And then connect DC Voltmeter to Test points of 1U-2477-1 (Main Unit).
  2. Connect Power cord to AC wall outlet, and turn Power Switch "on" ( ).
  3. Then after 10minutes warmup and check that the voltage of the DC Voltmeter reads is 2mV to 40mV(DC).
  4. If the voltage of the DC voltmeter reads is less than 1mV, Remove Resistor R419 and R420 on the MAIN UNIT (1U-2477-1).

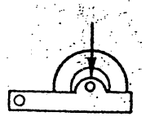
(UDRW-250E1, E2, EK)

CASSETTE DECK SECTION

ADJUSTMENT

- Mechanism Measurements

Measurement item	Standard value	Remarks
Winding torque (PLAY)	35~70 gcm	SONY TW-2111 for forward, TW-2121 for reverse
Fast-forward and rewind torque	70~180 gcm	SONY TW-2231
Back tension torque	2^{+2}_{-1} gcm	SONY TW-2111 for forward, TW-2121 for reverse
Pinch roller pressure	270 ± 50 g	See diagram at right
Fast-forward and rewind time	110 ± 15 s	C-60



With the deck in the play mode, apply force with the tension gauge in the direction of the arrow and read the value at which the pinch roller stops rotating.

- ELECTRICAL ADJUSTMENTS
- Preparations Before Adjustments

1. Measuring Instruments Necessary for Adjustments

Screwdriver: Small flat-bladed screwdriver for variable resistors

- Low frequency oscillator
- Attenuator
- V.T.V.M.
- Oscilloscope
- Frequency counter
- Test tapes (TEAC MTT-111, MTT-114, MTT-150, DENON HDX/60, or equivalent, or A-BEX TC-111, TCC-153, TCC-150)

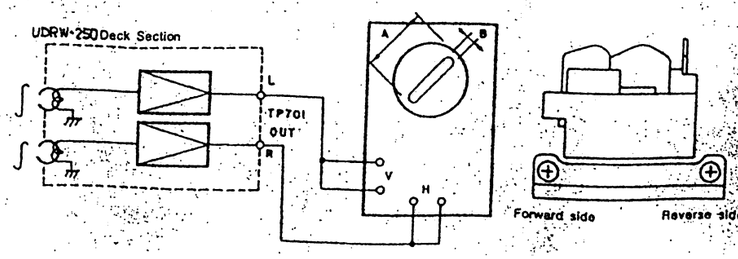
- Adjustment notes

① Before adjusting, wipe the surface of the heads, the capstans, and the pinch rollers with a piece of gauze moistened with alcohol.
② Demagnetize the playback, recording, and erasure heads with a head eraser.
③ Completely demagnetize the adjustment screwdriver.
④ Unless otherwise specified, set the switches at the following positions and use the LINE IN Terminal IN jacks for the input, and the LINE OUT Terminal IN jacks for the output.
DOBLY NR SW: OFF
REC VR : CENTER
⑤ Connect the Resistor (47kohm) to LINE OUT Terminal.

2. Playback adjustments

2-1 Azimuth adjustment

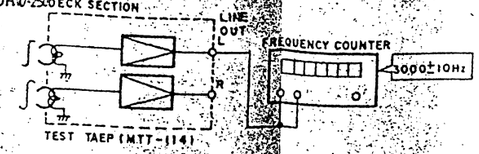
Play back the (TEAC MTT-114) test tape and turn the azimuth adjustment scrw to yield maximum values for the left and right channels. Lock the screw.



2-2 Tape speed check and adjustment

- Connect the frequency counter to LINE OUT Terminal.

① Play the test tape (MTT-111) on deck 2 and once the transport has stabilized, adjust normal-speed-adjustment variable resistor (motor Variable Resistor) to yield 3,000 Hz ± 10 Hz.
② Using the same procedure on deck 1, adjust variable resistor (motor Variable Resistor).



2-3 Playback level check and adjustment

Play a Dolby reference level tape (TEAC MTT-150) and check that the voltage of the left and right monitor outputs of LINE OUT Terminal is within 400 mV ± 1 dB.
If it is not within this range, the playback level requires adjustment.
NOTE: When adjusting deck 1, the playback level of deck 2 also changes; therefore, the playback level of deck 2 should be readjusted.

- For deck 1, adjust: VR703 (Left channel), and VR704 (right channel)
- For deck 2, adjust: VR701 (Left channel), and VR702 (right channel)

Caution: Always adjust the playback level starting from the left deck first.

3. Recording adjustments (deck 2 only)

3-1 Overall frequency response adjustment for recording and playback

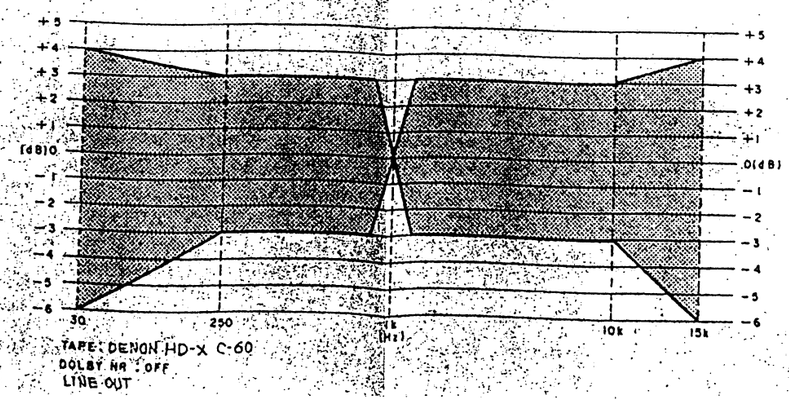
Load a blank DENON HDX/60 tape for adjustment purposes and record and play it back, adjusting the input attenuators of the 1 kHz and 10 kHz signals to yield a left and right monitor output voltage of 40 mV at the LINE OUT Terminal. Adjust so that the 10 kHz level is about +0.5 dB with respect to 1 kHz, and the overall response is within the range shown in the diagram below.

- If the 10 kHz output is larger than the 1 kHz output, turn VR707 (left channel) and VR708 (right channel) counterclockwise, and if it is smaller, turn these controls clockwise.

3-2 Recording level check and adjustment

Load a blank DENON HDX/60 tape for adjustment purposes and check that the voltmeter indication is within the 40 mV ± 1 dB range when a 1 kHz signal is recorded and played back.
If it is not within this range, the recording level requires adjustment.

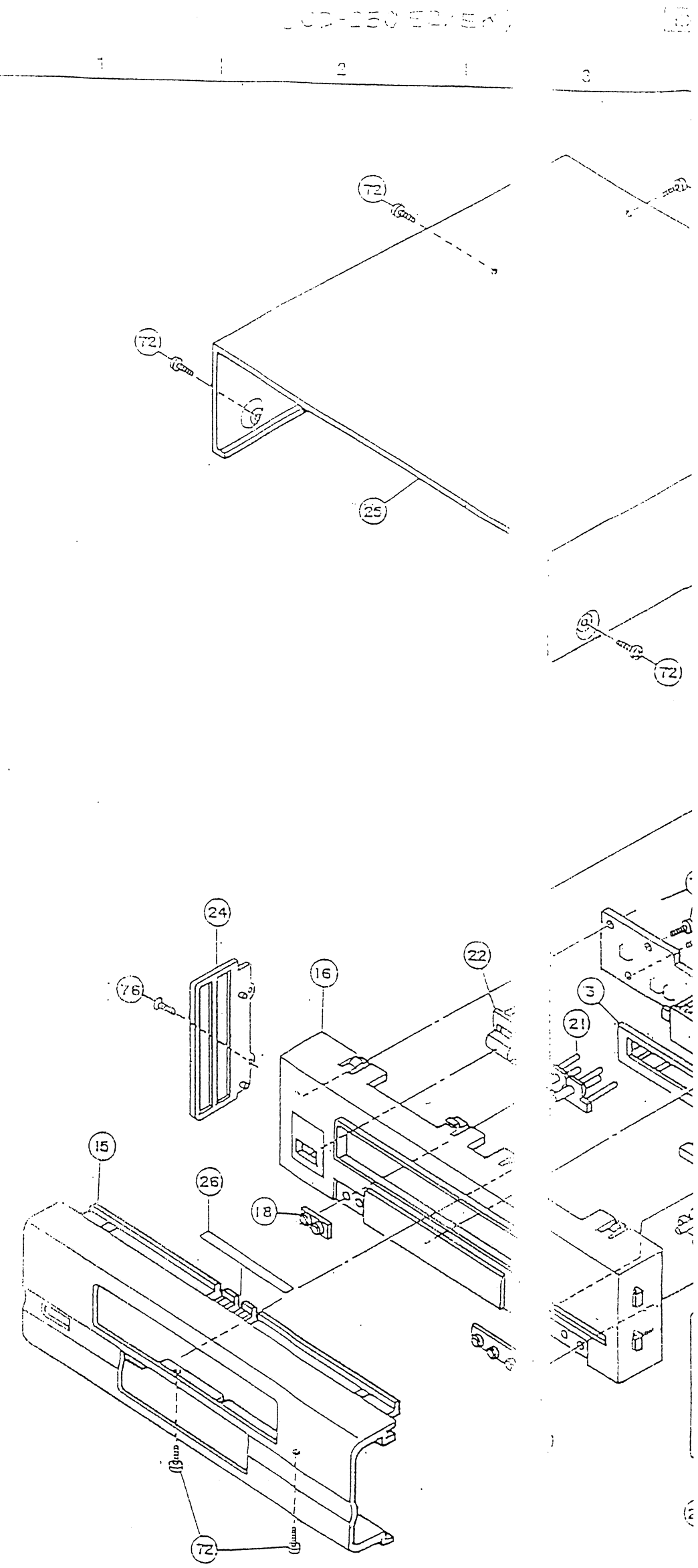
- If the level at the time of playing back the recording is higher than at the time of recording, turn VR705 (left channel) and VR706 (right channel) counterclockwise, and if lower, turn these controls clockwise.



I.

PARTS LIST FOR EXPLODED VIEW

Safe-ty	Ref. No.	Parts No.	Parts Name	Q'ty	New parts
	◎ 1	1U- 2478	P.W. Unit	1s	*
	1-1	-	Main unit	(1)	
	1-2	-	LCD/Tact sw unit	(1)	
	1-3	-	Power unit	(1)	
	◎ 2	393 4143 001	LCD	1	*
	3	449 0057 009	LCD holder	1	
	4	-			
	5	204 8413 000	2P pin jack	1	
	6	204 8366 005	1P pin jack	1	
	7	204 8421 005	Mini jack	2	
	◎ 8	411 1184 332	Main chassis	1	*
	9	104 0237 201	Foot ass'y	4	
	10	105 1044 218	Rear panel	1	*
	◎11	412 2814 028	PCB holder	1	
	◎12	412 3548 005	PCB holder	2	*
	13	449 0073 009	Mecha holder	1	
	◎14	337 0017 005	CD mecha	1	
	◎15	144 2212 219	Front panel	1	*
	◎16	146 1402 217	Inner panel ass'y	1	*
	17	146 1420 121	Knob guide	1	*
	18	146 1420 134	Knob guide	1	*
	19	113 1547 376	Push knob	1	*
	20	113 1549 044	Push knob	1	*
	21	113 1549 057	Push knob	1	*
	22	113 1560 013	Power knob	1	*
	23	146 1401 111	Loader panel ass'y	1	
	24	146 1411 211	Side plate	2	*
	25	102 0519 211	Top cover	1	*
	26	122 0183 007	Spacer	1	
	◎27	412 1965 004	PCB bracket	1	
	28	409 0052 019	Holder (A)	1	
	◎29	412 3485 003	PCB bracket	1	
	30	463 0726 006	Sport spring	1	
	31	441 0949 016	Spacer	2	
△	32	206 2091 000	AC cord w/con. E2	1	
△	33	445 0056 008	Cord bush	1	
	34	513 2066 001	E2 laser caution	1	
△	35	233 6002 001	Power transformer (E2)	1	
△	35	233 9651 005	Power transformer (EK)	1	
	36	412 9337 005	Trans bracket	1	*
	37	513 9316 000	Rating sheet (E2)	1	
	37	513 9316 026	Rating sheet (EK)	1	
	38	513 0985 003	Inst label (E2)	1	
	39	445 8004 007	Wire clamper	3	
Screws					
	71	473 7002 018	Tapping screw (s) 3X8	9	
	72	473 7015 005	Tapping screw (s) 3X6	15	
	73	473 7508 046	Tapping screw (s) 3X6	2	
	74	477 0064 107	Fixing screw	3	
	75	473 7508 017	Tapping screw (p) 3X10	3	
	76	473 7500 028	Tapping screw (s) 3X8	3	
	77	473 7505 007	Tapping screw (p) 2.6X8	9	
	78	473 7508 046	Tapping screw (p) 3X16	2	
	79	473 7004 003	Tapping screw (s) 4X8	2	
Packing and Accessories (Not shown Exploded View)					
	101	505 0102 089	Styrene paper	1	
	102	503 1062 106	Cushion	1	*
	103	503 1061 000	Top cushion	1	
	104	501 1657 007	Carton case	1	*
	105	513 1389 006	Control card	1	



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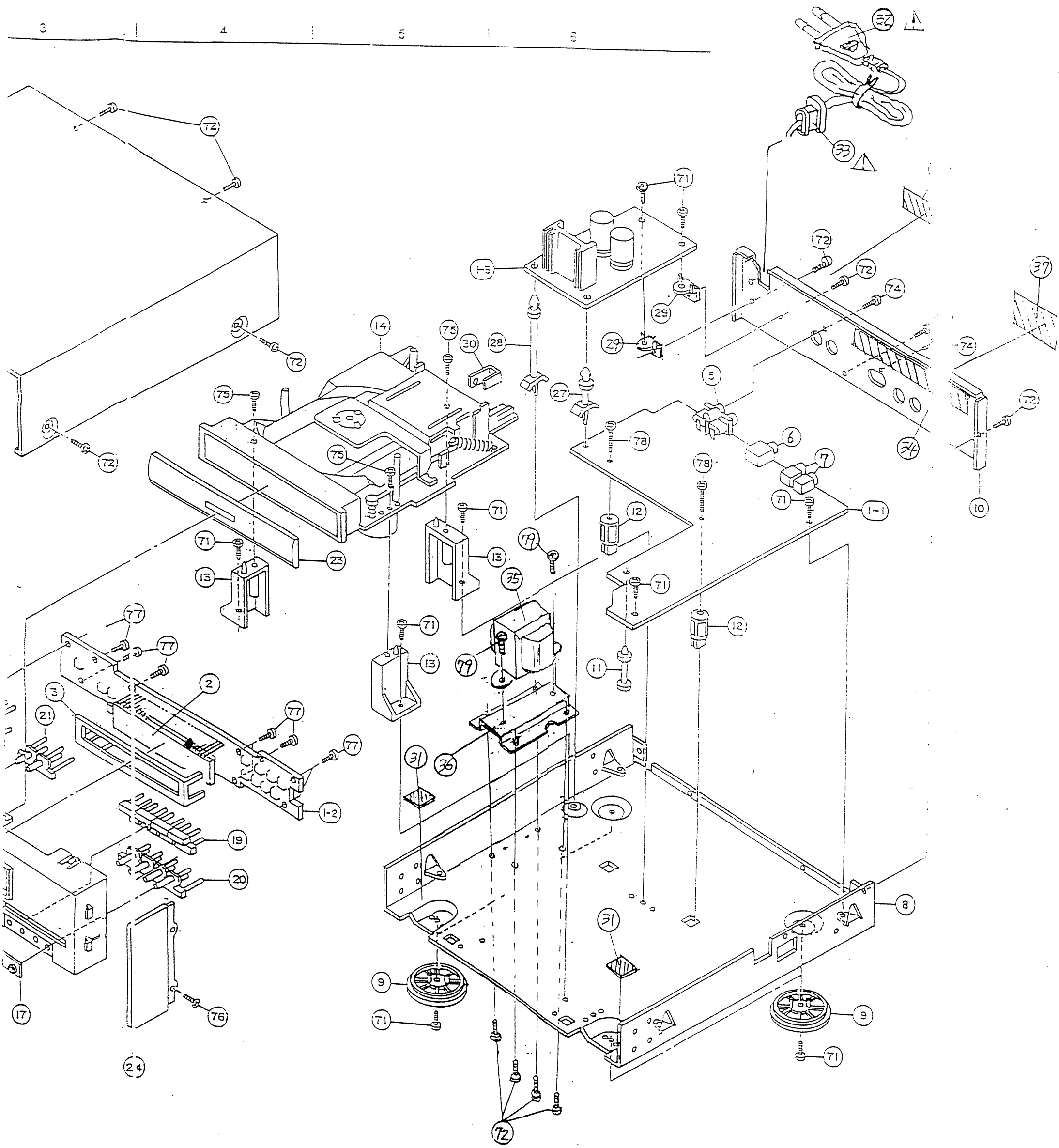
- Ordering part without stating its part number can not be su[illegible]ed.
- Part indicated with the mark "★" is new parts.

WARNING:
Parts marked with this symbol △ ▭ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

I.

EXPLODED VIEW



ossibly to take a long period of time for supplying, or in

void mis-supplying.

upplied.

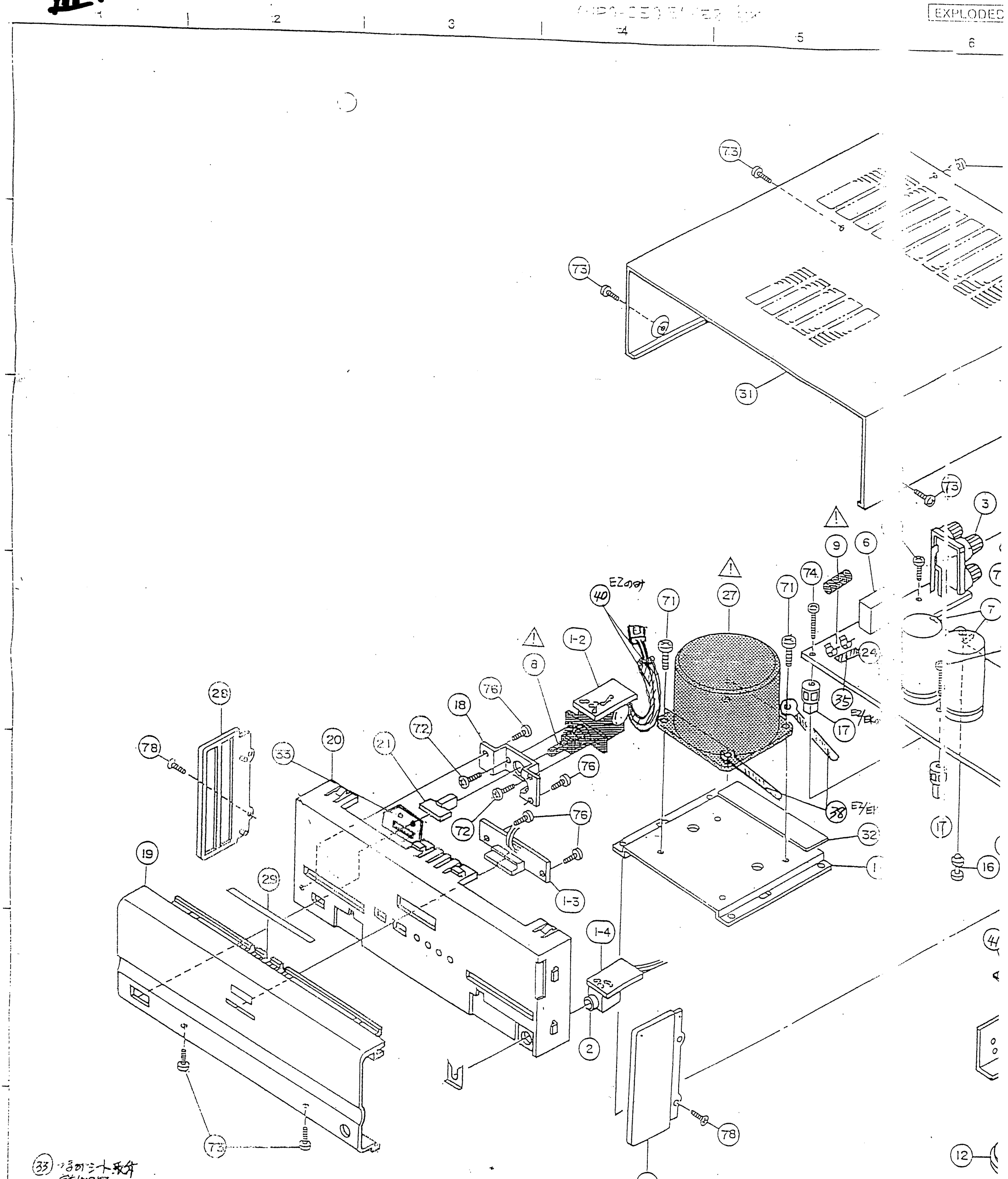
PARTS LIST FOR EXPLODED VIEW (UPO-250 E1/E2/EK)

Safety	Ref. No.	Parts No.	Parts Name	Q'ty	New parts
	◎ 1	1U-2477A/B	P.W. Unit (A:E2,EK B:E1)	1s	*
	1-1	-	Main unit	(1)	
	1-2	-	Power switch unit	(1)	
	1-3	-	Power LED unit	(1)	
	1-4	-	Headphone unit	(1)	
	1-5	-	-		
	1-6	-	Mono out unit	(1)	
	2	204 8420 006	Headphone jack	1	*
	3	205 0550 003	Speaker terminal (E1,E2 only)	1	
	3	205 0551 002	Speaker terminal (EK only)	1	
	4	204 8406 004	1P pin jack	1	
	5	205 0274 004	2P pin jack	1	
	6	214 0129 001	Relay	1	
	7	254 4371 701	Capacitor(8200μF/56V), (E1 only)	2	
	7	254 4370 702	Capacitor(8200μF/63V),(E2.EK only)	2	
△	8	212 1103 004	Power switch (TV-5)	1	
△	9	206 1015 058	Fuse (T1.6A) (E2,EK)	1	
△	9	206 1015 058	Fuse (T1.6A) (E1 only)	1	
	◎10	411 1184 329	Main chassis (E2,EK only)	1	*
	◎10	411 1184 248	Main chaasis (E1 only)	1	*
	◎11	412 9160 500	Trans bracket	1	*
	12	104 0253 007	Foot ass'y	4	*
	◎13	105 1045 149	Rear panel (E2 only)	1	*
	◎13	105 1045 152	Rear panel (EK only)	1	*
	◎13	105 1045 123	Rear panel (E1 only)	1	*
△	14	206 2089 106	AC cord w/con. E2	1	
△	14	206 2088 000	AC cord w/con. E1	1	
△	15	445 0056 008	Cord bush	1	
	◎16	412 2814 028	PCB holder	1	
	◎17	412 3518 005	PCB holder	2	*
	◎18	412 3532 105	Power switch bracket	1	*
	◎19	144 2225 206	Front panel ass'y	1	*
	◎20	146 1405 214	Inner panel ass'y	1	*
	21	113 9263 005	Power knob ass'y	1	
	22	417 0465 102	Main heat sink	1	*
	23	271 0240 035	Transistor 2SA1401 LB	2	
	24	273 0389 031	Transistor 2SC3855 LB	2	
	25	415 0234 007	Insulating sheet	4	
	◎26	412 3531 009	Radiator bracket	2	*
△	27	233 6013 002	Power transformer (E1)	1	
△	27	233 6003 009	Power transformer (E2)	1	
△	27	233 9653 003	Power transformer (EK)	1	
	28	146 1400 303	Side plate	2	*
	29	122 0183 007	Spacer	1	
	30	445 8004 007	Wire clamper	5	
	31	102 0518 212	Top cover	1	*
	32	415 0643 038	Insulating sheet	1	*
	33	441 1482 006	Kbon sheet	1	*
	34	211 9122 000	Variable resistor(100kΩ)(E2 only)	1	
	35	513 0815 089	Fuse label (T1.6A), (E2,EK only)	1	
	36	415 9067 000	Insulating sheet (E2,EK only)	1	*
	37	415 0461 016	UL tube (L=130)	1	
	38	445 0048 003	Cord holder (E2,EK only)	2	
	39	513 9317 009	Rating sheet (E2)	1	
	39	513 9317 012	Rating sheet (EK)	1	
	40	125 9006 087	UL tube	2	
	41	441 0949 016	Spacer	2	
	42	445 0033 005	Wire clamp band	1	
	43	212 9555 007	Voltage sel. switch (E1 only)	1	
	44	515 8030 008	Preset label (E1 only)	1	
Screws					
	71	473 7004 016	Tapping screw (s) 4X6	8	
	72	473 7002 018	Tapping screw (s) 3X8	10	
	73	473 7015 005	Tapping screw (s) 3X6	17	
	74	473 7508 046	Tapping screw (s) 3X6	3	
	75	477 0064 107	Fixing screw	3	
	76	473 7505 007	Tapping screw (p) 2.6X8	4	
	77	473 8007 009	Cup screw 3X12	4	
	78	473 7009 008	Tapping screw (p) 3X6	2	
Packing and Accessories (Not shown Exploded View)					
	101	505 0102 089	Styrene paper	1	
	102	503 1029 000	Cushion	1	*
	103	503 1032 000	Top cushion (E2,EK only)	1	
	104	513 1990 000	Unit cushion (E1 only)	1	
	105	501 1658 006	Carton case (E2,EK only)	1	*
	106	505 8006 019	Envelope	1	
	107	231 0922 009	AM loop antenna	1	
	108	395 0019 025	FM antenna	1	
	109	399 0168 004	Remote controller	1	
	110		R6PAA battery	2	
	111	203 2319 000	Pin plug cord (E2,EK only)	1	
	112	203 2223 002	Pin plug cord (E2,EK only)	3	
	113	203 2315 004	Stereo mini plug cord	1	
	114	203 2315 017	Stereo mini plug cord	1	
	115	529 0072 005	FM antenna adaptor	1	
	116	513 1389 006	Control card	1	

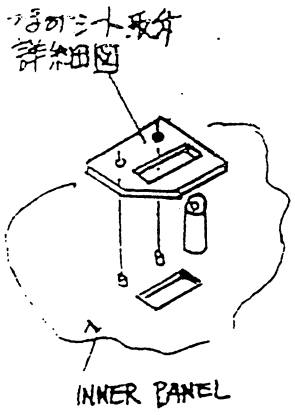
Note: E1: Multi-voltage model
E2: Europe model
EK: United Kigdom model

III.

EXPLODED



(33) 詳細図



INNER PANEL

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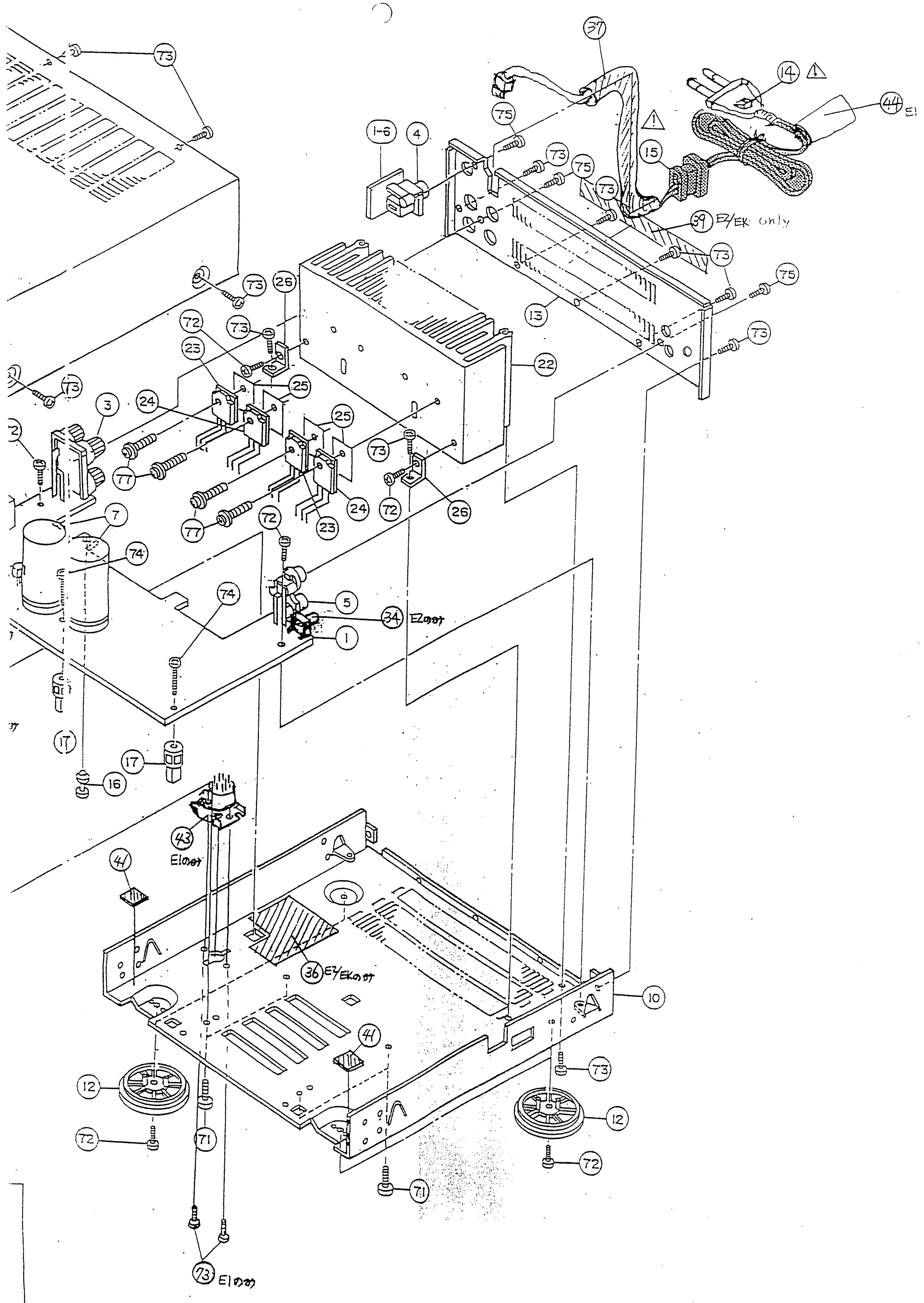
WARNING:

III.

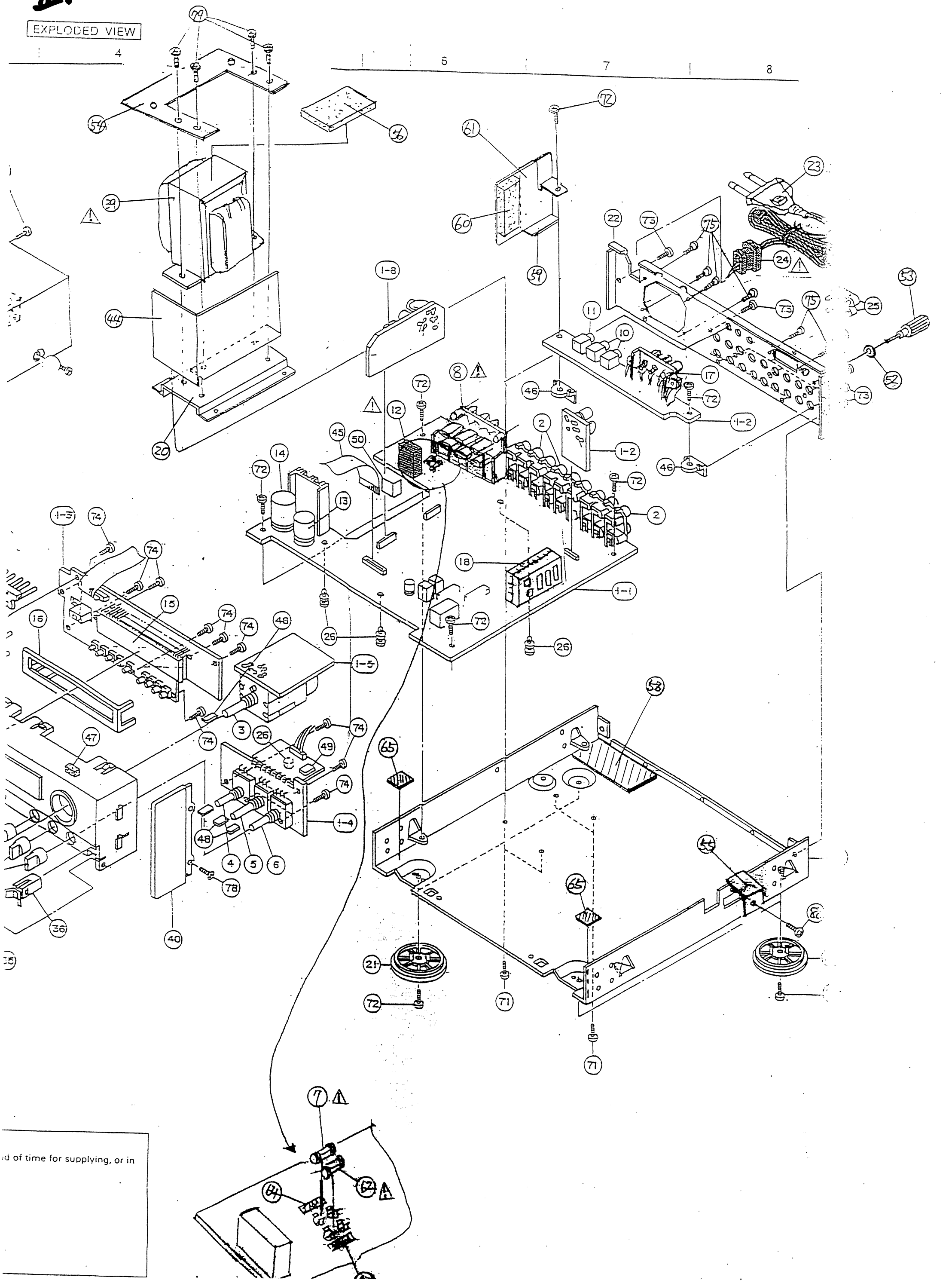
EXPLODED VIEW

6 | 7 | 8 | 9 | 10



II.

EXPLODED VIEW

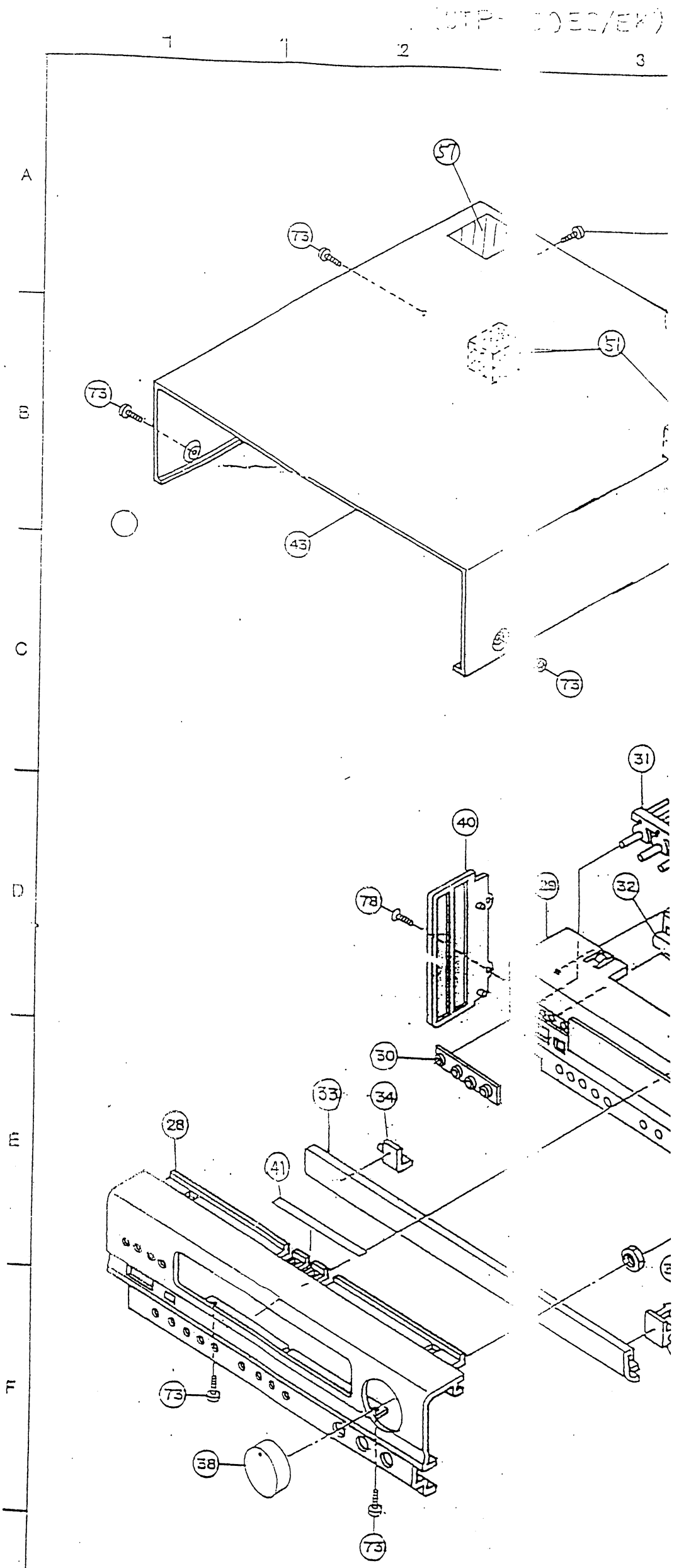


d of time for supplying, or in

II.

PARTS LIST FOR EXPLODED VIEW

Safety	Ref. No.	Parts No.	Parts Name	Q'ty	New parts
	◎ 1	1U- 2476 A	P.W. Unit	1s	*
	1-1	-	Main unit (1)	(1)	
	1-2	-	Tuner unit (1)	(1)	
	1-3	-	LCD/Tact sw unit	(1)	
	1-4	-	Tone unit	(1)	
	1-5	-	Main Vol unit	(1)	
	1-6	-	Trans wire unit(P)	(1)	
	1-7	-	Trans wire unit(S)	(1)	
	1-8	-	SDB unit	(1)	
	2	204 8278 009	6P pin jack	3	
	3	211 0749 107	Variable Resistor(100kΩ)	1	*
	4	211 0769 006	Variable Resistor(30kΩ)	1	*
	5	211 0768 007	Variable Resistor(5kΩ)	1	
	6	211 9105 001	Variable Resistor(50kΩ)	1	
△	7	206 1015 058	Fuse 1.6A	1	
△	8	203 3950 002	AC out let(3P)	1	
	9	-			
	10	204 8421 005	Mini. jack	2	*
	11	204 8422 004	Mini. jack(sw)	1	*
△	12	214 0120 000	Relay(TV-8)	1	
	13	254 4258 785	Electrolyte capacitor(470μF/35V)	1	
	14	254 4259 700	Electrolyte capacitor(2200μF/35V)	1	
	15	393 4142 002	LCD	1	*
	16	449 0057 009	LCD holder	1	
	17	205 0505 003	4P push terminal	1	
	18	216 0079 005	FM front end	1	*
	◎19	411 1184 303	Main chassis	1	*
	◎20	412 9339 001	Trans braket	1	*
	21	104 0237 210	Foot ass'y	4	*
	◎22	105 1042 249	Rear panel (E2)	1	*
△	23	206 2091 000	AC cord	1	
△	24	445 0056 008	Cord bush	1	
	25	205 0752 005	Short pin	2	
	◎26	412 2814 028	PCB holder	4	
	27	-	-		
	◎28	144 2211 210	Front panel	1	*
	29	146 1409 317	Inner panel	1	*
	30	146 1420 121	Knob guide	1	*
	31	113 1549 044	Push knob	1	*
	32	113 1460 013	Power knob	1	
	33	144 2216 118	Trap door	1	*
	34	401 0175 112	Door hinge(L)	1	*
	35	401 0176 111	Door hinde(R)	1	*
	36	435 0113 009	Ruch	1	
	37	112 0615 166	Knob	3	
	38	112 0691 107	Volume knob ass'y	1	
△	39	233 6001 001	Power transformer(E2)	1	*
	40	146 1411 211	Side plate	2	*
	41	122 0183 007	Spacer	1	
	42	445 8004 007	Wire clamper	3	
	◎43	102 0519 211	Top cover	1	*
	44	414 0676 015	Shield plate	1	
	45	009 0077 002	19P F.F cable	1	
	◎46	412 3485 003	PCB bracket	2	
	47	461 0756 041	Rubber sheet	1	
	48	513 2058 006	Blind sheet	4	
	49	461 0756 025	Rubber sheet	1	
	50	461 0756 012	Rubber sheet	1	
	51	461 0756 009	Rubber sheet	2	
	52	477 0018 001	Washer	1	
	53	205 0071 016	Trminal	1	
	54	412 9340 003	Fix. plate	1	*
	55	414 9133 009	Earth plate	1	*
	56	461 0758 010	Rubber sheet	1	*
	57	513 9316 013	Raing sheet (E2)	1	*
	58	415 9066 001	Insulating sheet	1	*
	59	461 9039 002	Spacer	1	
	60	461 0496 026	Spacer	1	
	61	414 9132 000	Shield plate	1	*
△	62	206 1015 003	Fuse 500mA	1	
	63	513 0815 003	Fuse label (T500mA)	1	
	64	513 0815 089	Fuse label (T1.6A)	1	
	65	441 0949 016	Spacer	2	
Screws					
	71	473 7004 016	Tapping screw (s) 4X6	4	
	72	473 7002 018	Tapping screw (s) 3X8	13	
	73	473 7015 005	Tapping screw (s) 3X6	10	
	74	473 7505 007	Tapping screw (s) 2.6X8	12	
	75	477 0064 107	Fixing screw	7	
	76	473 7508 017	Tapping screw (p) 3X10	12	
	77	473 3806 014	Tapping screw (s) 3X8	1	
	78	473 7500 028	Tapping screw (p) 3X8	2	
	79	473 7004 003	Tapping screw (s) 4X8	4	
	80	473 7002 005	Screw (s) 3X6	1	
Packing and Accessories (Not shown Exploded View)					
	101	505 0102 089	Styrene paper	1	
	102	503 1061 000	Top cushion	1	*
	103	503 1062 106	Cushion	1	*
	104	501 1657 010	Carton case	1	*
	105	511 2421 006	Inst. manual	1	*
	106	511 2433 007	Inst. manual	1	*



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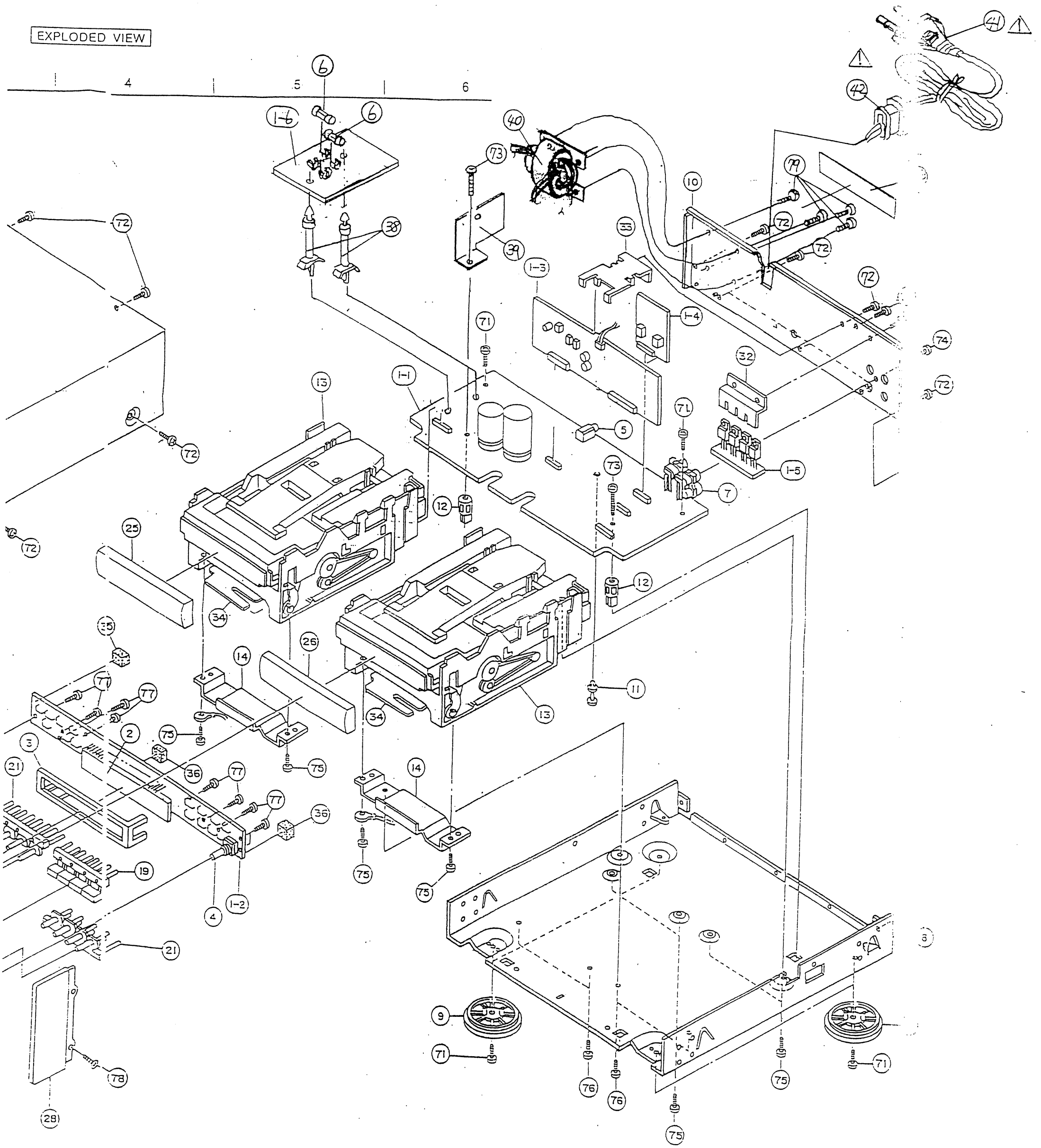
IV.

EXPLODED VIEW



I period of time for supplying, or in

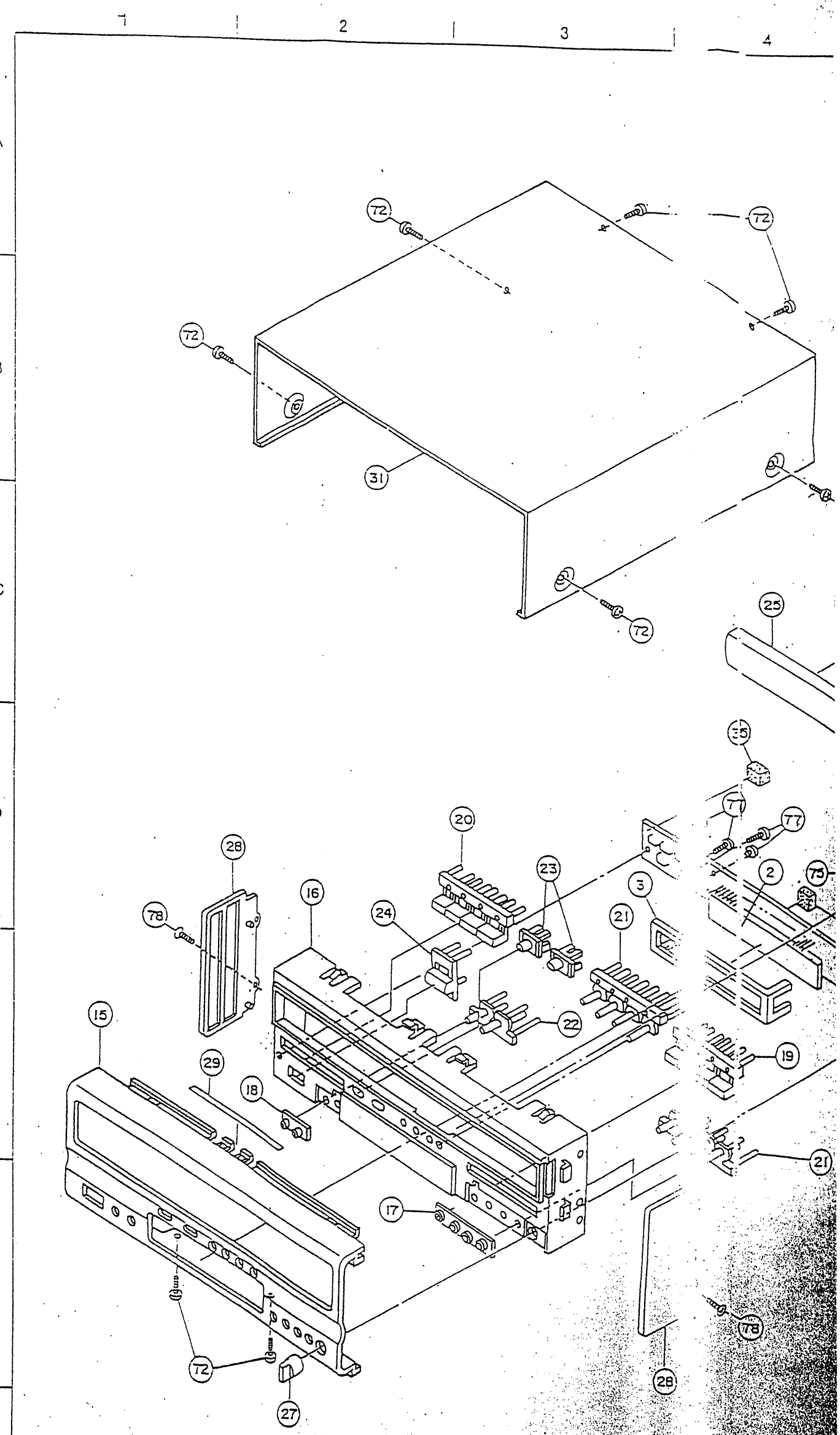
IV.

IST FOR EXPLODED VIEW

f. o.	Parts No.	Parts Name	Q'ty	New parts
1	1U- 2479 A	P.W. Unit	1s	*
1-1	-	Main unit	(1)	
1-2	-	LCD/Tact sw unit	(1)	
1-3	-	PB/Rec unit	(1)	
1-4	-	Dolby unit	(1)	
1-5	-	P. TR & IC unit	(1)	
1-6	-	EX unit	(1)	
2	393 4143 001	LCD	1	*
3	449 0057 009	LCD holder	1	
4	211 6090 009	Variable rasistor(100kΩ)	1	*
5	204 8421 005	Mini jack	1	
6	206 1015 058	Fuse 1.6A	2	
7	204 8266 008	4Ppin jack	1	
8	411 1184 316	Main chassis	1	*
9	104 0237 201	Foot ass'y	4	
10	105 1043 112	Rear panel (E2)	1	*
10	105 1043 138	Rear panel (EK)	1	*
11	412 2814 028	PCB holder	2	
12	412 3548 005	PCB holder	2	*
13	HA1 15A	Cassette mecha	1	
14	449 0071 001	Mecha holder	2	
15	144 2213 221	Front panel	1	*
16	146 1404 309	Inner panel ass'y	1	*
17	146 1420 105	Knob guide	1	*
18	146 1420 118	Knob guide	1	*
19	113 1547 318	Push knob	1	*
20	113 1547 321	Push knob	1	*
21	113 1549 002	Push knob	2	*
22	113 1549 015	Puh knob	1	*
23	113 1548 003	Selwct knob	2	*
24	113 1460 000	Porer knob	1	
25	146 1407 209	Loader panel (1)	1	*
26	146 1408 208	Loader panel (2)	1	*
27	112 0645 166	Knob	1	*
28	146 1400 303	Side plate	2	*
29	122 0183 007	Spacer	1	*
30	445 8004 007	Wire clamper	5	
31	102 0518 209	Top cover	1	*
32	412 9326 001	IC holder	1	
33	412 9327 000	PCB bracket	1	
34	414 9125 101	Wire cover	2	
35	461 9035 005	Spacer	1	
36	461 0758 007	Spacer	1	
37	513 9315 001	Rating sheet (E2)	1	
37	513 9315 014	Rating sheet (EK)	1	
38	415 9016 006	PCB holder	2	
39	415 9070 000	Insulating sheet	1	*
40	233 9649 004	Power transformer(E2)	1	*
40	233 9652 004	Power transformer(EK)	1	*
41	206 2089 106	AC cord w/con. E2	1	
42	445 0056 008	Cord bush	1	
71	473 7002 005	Tapping screw (s) 3X6	10	
72	473 7015 005	Tapping screw (s) 3X6	14	
73	473 7508 046	Tapping screw (s) 3X16	2	
74	477 0064 107	Fixing screw	2	
75	473 7508 017	Tapping screw (p) 3X10	4	
76	473 7002 005	Tapping screw (s) 3X8	4	
77	473 7505 007	Tapping screw (p) 2.6X8	9	
78	473 7009 008	Tapping screw (s) 3X6	2	
79	473 7015 018	Tapping screw (s) 3X8	4	
and Accessories (Not shown Exploded View)				
01	505 0102 089	Styrene paper	1	
02	503 1029 000	Cushion	1	*
03	503 1032 000	Top cushion	1	
04	501 9228 001	Carton case	1	*
05	513 1389 006	Control card	1	

(UDRW-250E2/EK)

EXPLODED VIEW



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MAIN
10-2478-1

CHANISUM

TP501(NH) HF

TP502(NH) TO VC

CB501 TRC TRA FDV FC1 FC2 FC4 FC3

CB502 FAC GND TAC GND VR MD LD GND

CB503

C503 1000p R502 33k R503 1k VR501 5k R507 27k R508 2.4k R505 2.4k C504 0.47 C505 10/16 C507 10/16 R511 8.2k C508 0.0027 C536 0.01

C526 100/6.3 R526 12k C509 10/16

C527 0.01 C528 47/16 C529 0.056 C530 0.027 C531 0.15 C532 22/16 R512 10k R513 15k C535 390p R516 12k R514 9.1k R515 82k R517 10k C533 0.22 C534 1000p R518 15k R519 10k VR502 100k R520 15k R521 100 C521 0.22 C520 5600p R522 3.3k C519 1/60

R501 47 C502 100/6.3 C501 0.01

TG2 TS1- TS10 TS2- TS20 TM2 SS- SSO MIRR FE SG FS- FSO SVCC

TGI TE FH PG TR2 TR1 VREF RF2 RF1 PVcc RF- RFO ISET BYPS

IC501 HA121598

FUD VCR PDIN FRA VVcc VCO VGND COUT SENS XRST DIRC XLT DATA CLK

C522 10/16 C517 0.01 C518 0.01 C516 1000p

A14 A3 A13 A11 A5 A4 A6 A21 A22 A15 A16

LD MD EFMI MIRH DFH DFO DFIN DSLC VEFM EFMC GEFM FOK LDSW LMSW

C510 0.033 C511 2200p C512 0.015 C513 10/16 C514 0.47 C515 0.01 C523 0.0056 C590 0.1

TR501 2SA1015 R525 22 C524 100p R524 10k R523 10k

TR504 BC368 TR505 BC369 TR502 BC368

R530 91k R531 220 R532 47k R533 3.3k R534 10k R535 10k R536 6.8k R544 22 R540 5.0k VR

IC503 BA15218 2/2

A23 A24

R528 10k R527 10k R529 R538

PMD SW TRAY

IC601 SM5840CSOP

OW16 XTI XTO CKO Vss NC NC OW20 DEEM MUTE RST

DIN BCKI LRCI BCKO NC NC VDD WCLK DOL DOR DG

R601 1k A18 R602 1k A19 R603 1k A17 R604 1k R605 1k R606 1k R636 1k

A12 A25 A20

C601 330p

C602 0.01

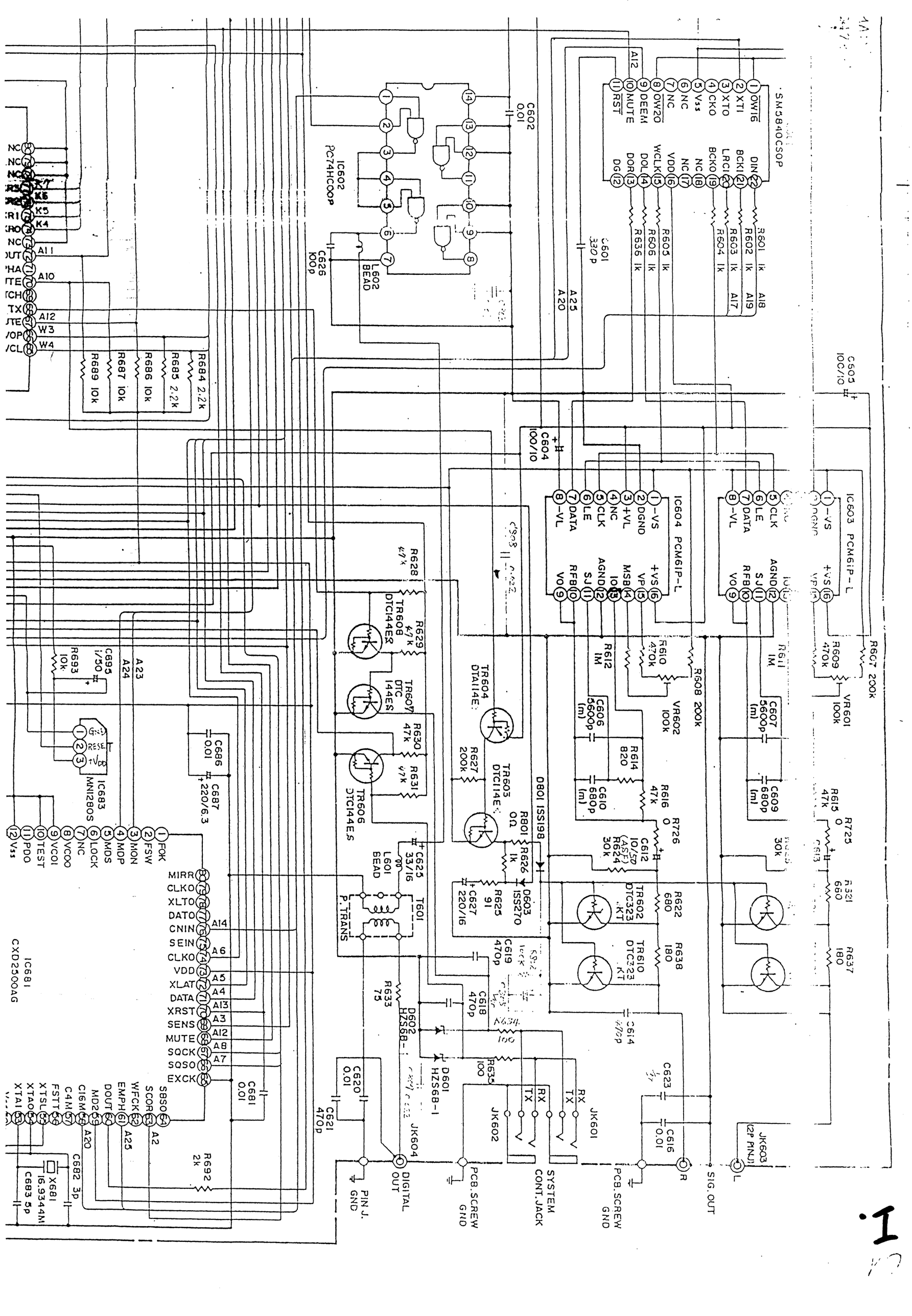
IC602 PC74HC00P

L602 BEAD C626 100p

GND TR-A TR-A NC TRIN BIAS Vcc Vcc SLIN NC SMO SMO NC NC

FO-A FO-A NC FDIN REGO SVIN MUTE GND NC NC NC NC GND NC

A11 A10


SM5840CSOP
OW16
XTI
XTO
CKO
Vss
NC
NC
OW20
DEEM
MUTE
RST
DIN
BCKI
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BCKO
NC
VDD
WCLK
DOL
DOR
DG
R601 1k
R602 1k
R603 1k
R604 1k
R605 1k
R606 1k
R636 1k
A18
A19
A17
A12
A25
A20
C601 330p
C602 0.01
IC602 PC74HC00P
C626 100p
L602 BEAD
C603 100/10
C604 100/10
IC603 PCM61P-L
IC604 PCM61P-L
-VS
DGND
+VL
NC
CLK
LE
DATA
-VL
+VS
VP
MSB
IOUT
AGND
SJ
RFB
VO
R611 1M
R610 470k
R612 1M
R608 200k
VR602 100k
VR601 100k
R609 470k
R607 200k
C607 5600p (m)
C606 5600p (m)
C609 680p (m)
C610 680p (m)
R614 820
R616 47k
R726 0
C612 10/50 (ASF)
R624 30k
R725 0
R321 650
R637 180
R622 680
R638 180
C623
C616 0.01
C614 470p
C618 470p
C619 470p
R633 75
D602 HZS68-1
D601 HZS68-1
R634 100
R635 100
JK601
JK602
JK603 (2P PIN)
JK604
SIG. OUT
R
L
RX
TX
SYSTEM CONT. JACK
PCB. SCREW GND
DIGITAL OUT
PIN J. GND
TR601 DTC144ES
TR602 DTC323 .KT
TR603 DTC114ES
TR604 DTA114E
TR605 DTC 144ES
TR606 DTC144ES
TR607 DTC 144ES
TR608 DTC144ES
R629 47k
R630 47k
R631 47k
R627 200k
R801 0Ω
R626 1k
R625 91
C627 220/16
C625 33/16
C626 100p
L601 BEAD
T601
P. TRANS
D801 ISS198
D603 ISS270
C622
C620 0.01
C621 470p
C681 0.01
C686 0.01
C687 220/6.3
R684 2.2k
R685 2.2k
R686 10k
R687 10k
R689 10k
R692 2k
R693 10k
C695 1/50
IC683 MN1280S
IC681 CXD2500AG
FOK
FSW
MON
MOP
MDS
LOCK
NC
VCOO
VCOI
TEST
PDO
Vss
MIRR
CLKO
XLTO
DATO
CNIN
SEIN
CLKO
VDD
XLAT
DATA
XRST
SENS
MUTE
SQCK
SQSO
EXCK
SBSO
SCOR
WFCK
EMPH
DOUT
MD2
C16M
C4M
FSTT
XTSL
XTAO
XTAI
A14
A6
A5
A4
A13
A3
A12
A8
A7
A2
A25
A20
C682 3p
X681 16.9344M
C683 5p
W3
W4
A11
A10
A12
K5
K3
K4
NC
NC
NC

PMD SW
DISC MOTOR
TRAY
OPEN
CLOSE
LOADING MOTOR
CB504
R528 10k
R527 10k
R529 10k
W0
W1
W2
TR504 BC368
R530 91k
C523 0.0056
IC503 BA15218
R531 220
R544 22
C590 0.1
TR505 BC369
R535 10k
R536 6.8k
A23
A24
R532 47k
R533 3.3k
R534 10k
TR502 BC368
R538 100
R537 22k
TR503 BC369
C524 0.022
R539 10k
R540 6.8k
W4
R541 7.5k
W3
R542 10k
C525 3.3
IC502 BA6296FP
GND TR A TR A NC TRIN BIAS Vcc Vcc SLIN NC S MO S MO NC NC
FO A FO A NC FOIN REGO SVIN MUTE GND NC NC NC NC GND NC
CN1 *注
10-2467
R1 1K
TR1 2SD667A
TR2 2SD667A
TR3 2SB562
R2 100
R3 100
R4 1K
D1 1SS270A
CB581(PH)
CN581
L0 L1 L2 L3 L4 L5
DISPLAY
10-2478-2
LCD581
LCD8233JP
D581 LED
C582 100/16
R581 51k
C581 680p
IC581 LC7582
COM1 COM2 DATA CLK CE Vss VLCD INH VDD OSC S53/AD05 S52/AD04 S51/AD03 S50/AD02 S49/AD01 S48
S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 OPEN S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42 S43 S44 S45 S46 S47
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39 C40 C41 C42 C43 C44 C45 C46 C47
CB561 (PH)
K0 K1 K2 K3 K4 K5 K6 K7 K8
C801 0.01
KEY MATRIX CN561
D561 D562 D563 D564 ISS270A
R561 47k
R562 47k
R563 47k
R564 47k
RAND S561
O/C S562
FF S563
EDIT S564
STP S565
REV S566
TAPE SIDE A/B S567
PAUSE S568
REPEAT S569
RLAY S570
STAND BY S571
D567 HZS68-1
D568 HZS68-1
D565 HZS68-1
R568 47k
C688 100/6.3
C689 0.01
A13
R694 10k
R695 10k
TR659 DTC114 ES
R667 10k
R698 10k
R664 4.7
R660 47k
TR654 2SC2458
C666 0.01
NC NC NC KR3 KR2 KR1 KR0 K7 K6 K5 K4
1 ANO
2 AVref
3 VDD
4 VDD
5 NC
6 PPLYON
7 PAUTO
8 PDPLAY
9 XRSTOUT
10 PO OFF O
11 DIG OFF O
12 STBY O
13 P INIT
14 P EDIT
15 P SEACH
16 PDOUT
17 NC
18 PLCO DATA OUT
19 PLCO CLK OUT
20 NC
21 KSO
22 KS1
23 KS2
24 KS3
KS7 KS6 KS5 KS4 KS8 KS9 NC NC
L0 L1 L2 L3 L4
K0 K1 K2 K3 K4
μPD7

*注 10-2457 ﾈｺﾞ CN1 ﾆﾊ 抵抗ﾉｺﾝﾄﾗｽﾄ VR ｶﾞ ｾﾂｿﾞｸｻﾚﾃｲﾏｾﾝ ﾃｲｺｳﾁ ｶﾞ ｲﾛﾉﾐ 使用ｻﾚﾏｽ.

IC682
μPD75517GF

IC681
CXD2500AG

IC683
MN1280S

IC651
ICP-N15

IC652
BP936F

IC653
M5290

IC654 ICP-N15

IC655
ICP-N15

TR651
BD935F

TR653 BC368

TR654
2SC2458

TR658
DTC114ES

TR659
DTC114
ES

D655 1SS270A

R686 10k
R687 10k
R689 10k
R693 10k
R694 10k
R695 10k
R667 10k
R698 10k
R664 4.7
R690 1M
X682 4MHz
R696 10k
R697 10k
R660 47k
R656 47k
R658 10k
R659 47k
R655 0
R654 1k
R657 10k
R682 10k
R683 6.8k
R681 3.3k
R651 4.7k(1/4)
R652 4.7k(1/4)
R653 10k

C690 0.01
C695 1/50
C688 100/6.3
C689 0.01
C684 0.047
C685 0.0015
C665 100/16
C666 0.01
C664 1/50
C663 220/16
C660 1/50
C662 220/16
C661 3.3/50
C658 3300/16
C659 3300/16
C682 3p
X681 16.934
C683
C9655
C8652 (VH)
C8653 (PH)
C656 0.01
C657 0.01
C654 0.01
C655 0.01
C653
C652
C651

D652 ISR35
D651 ISR35
D654 ISR35
D653 ISR35

TP681 (PH)
TP682 (NH)

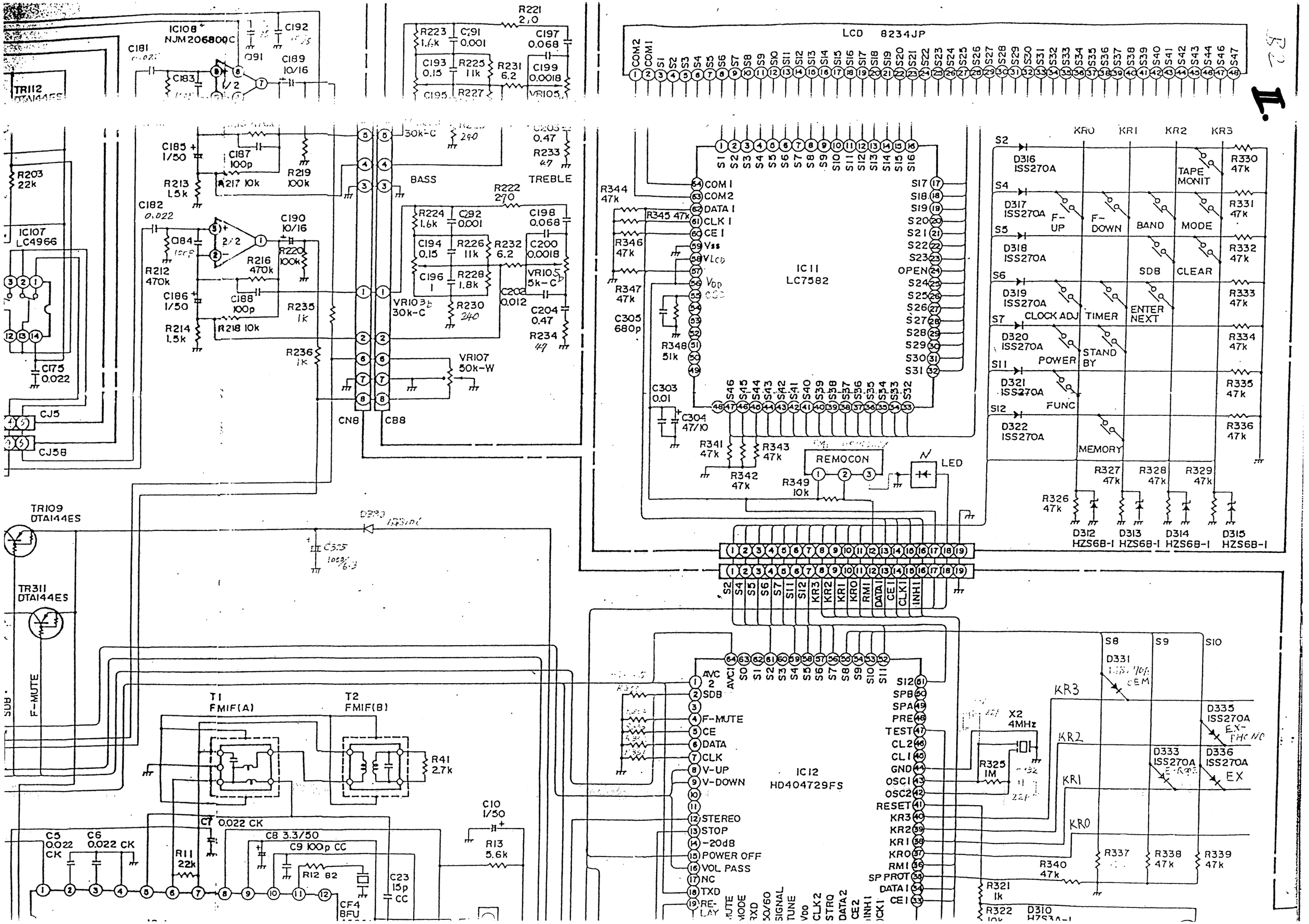
CN651

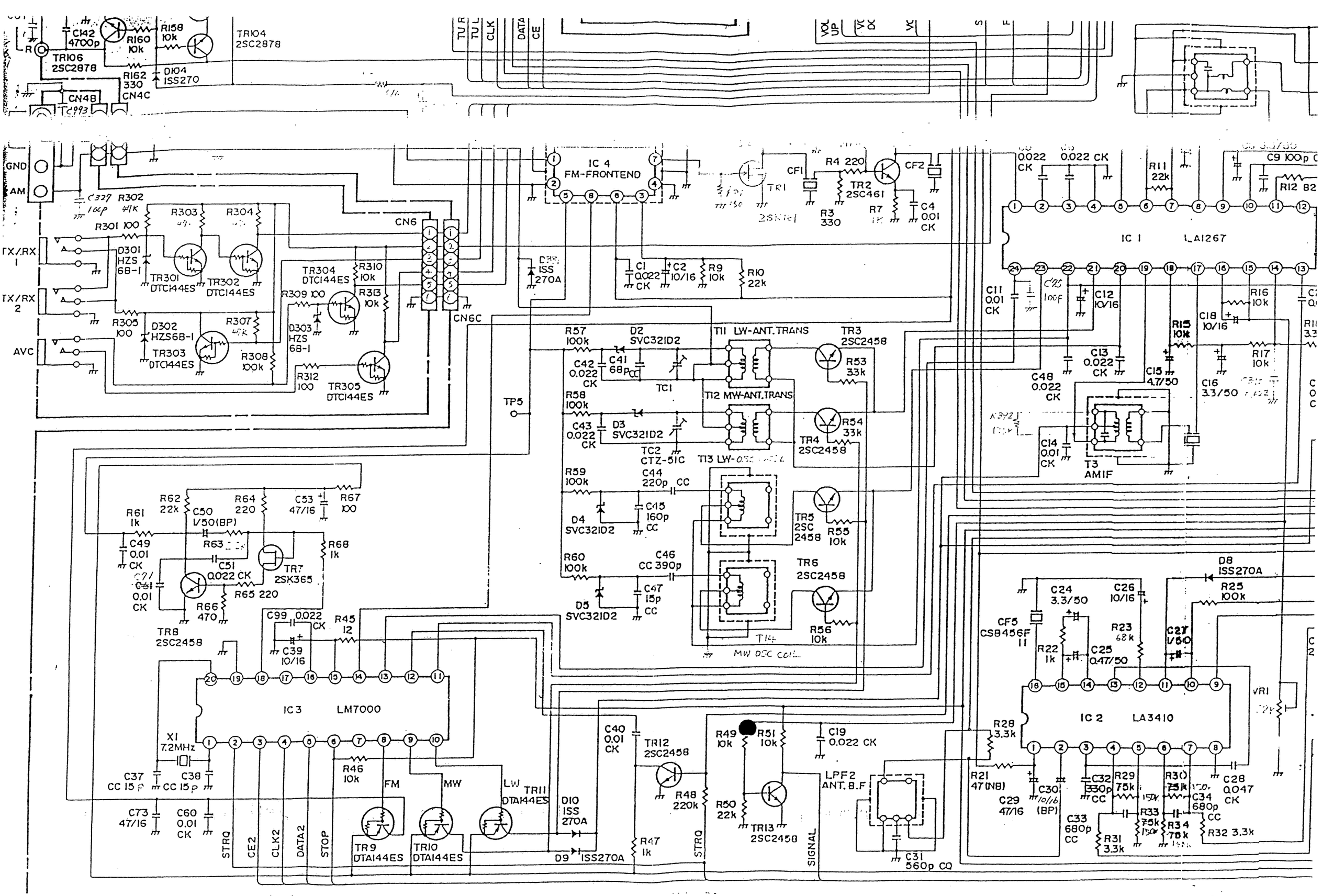
PT.

A13
A22
A8
A7
A2
A1
A3
A21
A6
A5
A4
A23
A24
A16
A17
A18
A19
A20
A25
A15

K8
L0
L1
L2
L3
L4
L5
K0
K1
K2
K3
K4
K5
K6
K7
K9
W0
W1
W2
W3
W4

PHONO
CD
TAPE
DAT
TAPE REC
DTA REC
PRE OUT
PROCESSOR OUT
PROCESSOR IN
GND
AM
R101
R102
R121
R123
R124
R122
R125 1k
R127
R128
R126 1k
R129 1k
R131
R132
R130 1k
R133 470
R135 1M
R136 1M
R134 470
R139 1M
R137 470
R140 1M
R138 470
TR101 2SC2878
R147 10k
R149 100k
R148 10k
R150 100k
R155 100k
D103 ISS270
TR102 2SC2878
R151 1k
R153 1M
R154 1M
R156 100k
R161 330
TR105 2SC2878
R157 10k
R159 10k
R158 10k
R160 10k
TR103 2SC2878
TR104 2SC2878
TR106 2SC2878
R162 330
D104 ISS270
CN48
CN4C
IC101 RC4558P
IC102 LC7821
IC103 RC4558P
C319 0.001
C143 0.022
R163 680k
C137
R145 C135 10/16
R143 100k
C133 100p
C131 10/16
R141 100k
R146 680 C136 10/16
R144 100k
C134 100p
C132 10/16
R142 100k
C117 0.022
C118
+12
-15
-12V
AV
IC105 RC4558P
R183 82k
R173 5.1k
C165 0.022
C161 0.47/50
R181 330
C163 0.33/50
TR107 2SC2878
R175 10k
C151 10/16
R184 82k
R171 100k
C153 330P
C162 0.47/50
R174 5.1k
TR108 2SC2878
R176 10k
C164 0.33/50
D105 ISS 254
D106 ISS 270A
C152 10/16
R172 100k
C154 330P
R178 24k
C160 10/16
R180 100k
C166 0.022
C179 30P
C180 30P
IC104 NJM2068DD
C159 10/16
R179 100k
R177 24k
R185 68k
R186 68k
C176 0.022
C175 0.022
IC107 LC4966
TR110 DTC144ES
TR111 DTC144ES
TR112 DTA144ES
TR114 DTC144ES
TR113 DTA144ES
R201 10k
R202 10k
R204 10k
R203 22k
R205 22k
D108
IC108 NJM2068DD
C181 0.022
C183 100P
R211 470k
C185 1/50
R213 L5k
C182 0.022
C184 100P
R212 470k
C186 1/50
R214 L5k
R215
R217
R218
CJ7
CJ78
CJ5
CJ58
CN6
CN6A
CN3
CN3A
R191 27k
R192 27k
VR101 100k-B
IC106 LB1639
C171 C172 10/16 10/16
C173 47/10
R193 10k
R194 10k
CN4
CB4
R189 270k
TR109 DTA144ES
C167 10/16
TR311 DTA144ES
TU R
TU L
CLK
DATA
CE
VOL UP
VOL DOWN
VOL PASS
SDB
F-MUTE
TI
FMIF(A
IC 4 FM-FRONTEND
C327 100P
R302 47K
R301 100
R303 47K
R304 47K
CN6
C5 0.01
R5 4.7K
R6 330
CF1
R4 220
TR2 2SC461
CF2
R3 330
R7 1K
C4 0.01
C5 0.022 CK
C6 0.022 CK
R11 22K


IC108 NJM2068OOC
C181
C183
C191
C192
C189 10/16
TR112
R221 2,0
R223 1.6k
C191 0.001
C197 0.068
C193 0.15
R225 11k
R231 6.2
C199 0.0018
C195
R227
VR105
LCD 8234JP
COM2
COM1
S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42 S43 S44 S45 S46 S47
R203 22k
IC107 LC4966
C175 0.022
CJ5
CJ58
C185 1/50
C187 100p
R219 100k
R213 1.5k
R217 10k
C182 0.022
C190 10/16
C184 100p
R216 470k
R220 100k
R212 470k
C186 1/50
C188 100p
R214 1.5k
R218 10k
R235 1K
R236 1K
30k-C
240
BASS
TREBLE
R222 270
R224 1.6k
C192 0.001
C198 0.068
C194 0.15
R226 11k
R232 6.2
C200 0.0018
C196 1
R228 1.8k
C202 0.012
C204 0.47
R234 47
VR103b 30k-C
R230 240
VR107 50k-W
CN8
CB8
R344 47k
R345 47k
R346 47k
R347 47k
C305 680p
R348 51k
IC11 LC7582
COM1
COM2
DATA1
CLK1
CE1
Vss
VLCD
VDD
OPEN
C303 0.01
C304 47/10
R341 47k
R343 47k
R342 47k
REMOCON
R349 10k
LED
KR0 KR1 KR2 KR3
S2
D316 ISS270A
TAPE MONIT
R330 47k
S4
D317 ISS270A
F-UP
F-DOWN
BAND
MODE
R331 47k
S5
D318 ISS270A
SDB
CLEAR
R332 47k
S6
D319 ISS270A
CLOCK ADJ
TIMER
ENTER NEXT
R333 47k
S7
D320 ISS270A
POWER
STAND BY
R334 47k
S11
D321 ISS270A
FUNC
R335 47k
S12
D322 ISS270A
MEMORY
R336 47k
R327 47k
R328 47k
R329 47k
R326 47k
D312 HZS68-1
D313 HZS68-1
D314 HZS68-1
D315 HZS68-1
TR109 DTA144ES
TR311 DTA144ES
F-MUTE
SUB
T1 FMIF(A)
T2 FMIF(B)
R41 2.7k
C7 0.022 CK
C5 0.022 CK
C6 0.022 CK
C8 3.3/50
C9 100p CC
R11 22k
R12 82
C23 15p CC
CF4 8FU
C10 1/50
R13 5.6k
IC12 HD404729FS
AVC2
SDB
F-MUTE
CE
DATA
CLK
V-UP
V-DOWN
STEREO
STOP
-20dB
POWER OFF
VOL PASS
NC
TXD
RELAY
X2 4MHz
R325 1M
S8 S9 S10
D331
KR3 KR2 KR1 KR0
D335 ISS270A
D333 ISS270A
D336 ISS270A
R337
R338 47k
R339 47k
R340 47k
R321 1k
R322
D310


R
C142 4700p
R158 10k
R160 10k
TR106 2SC2878
R162 330
D104 ISS270
CN48
CN4C
TR104 2SC2878
TU R
TU L
CLK
DATA
CE
VOL SP
VOL
S
F
GND
AM
TX/RX 1
TX/RX 2
AVC
C327 10p
R302 47k
R301 100
R303 47k
R304 47k
D301 HZS 68-1
TR301 DTC144ES
TR302 DTC144ES
R305 100
D302 HZS68-1
TR303 DTC144ES
R307 47k
R308 100k
R309 100
TR304 DTC144ES
R310 10k
R313 10k
D303 HZS 68-1
R312 100
TR305 DTC144ES
CN6
CN6C
IC 4 FM-FRONTEND
TR1 2SK161
CF1
R4 220
TR2 2SC461
R3 330
R7 1k
CF2
C4 0.01 CK
D38 ISS 270A
C1 0.022 CK
C2 10/16
R9 10k
R10 22k
IC 1 LA1267
C11 0.01 CK
C12 10/16
C13 0.022 CK
C15 4.7/50
C16 3.3/50
C18 10/16
R15 10k
R16 10k
R17 10k
C48 0.022 CK
C14 0.01 CK
T3 AM1F
TP5
R57 100k
D2 SVC321D2
C42 0.022 CK
C41 68p CC
TC1
T11 LW-ANT.TRANS
TR3 2SC2458
R53 33k
T12 MW-ANT.TRANS
R58 100k
C43 0.022 CK
D3 SVC321D2
TC2 CTZ-51C
T13 LW-OSC COIL
TR4 2SC2458
R54 33k
R59 100k
C44 220p CC
C45 160p CC
D4 SVC321D2
TR5 2SC 2458
R55 10k
R60 100k
C46 CC 390p
C47 15p CC
D5 SVC321D2
TR6 2SC2458
R56 10k
T14 MW OSC COIL
R62 22k
C50 V50(BP)
R64 220
C53 47/16
R67 100
R61 1k
C49 0.01 CK
R63 22k
C51 0.022 CK
TR7 2SK365
R68 1k
C52 0.01 CK
R65 220
R66 470
TR8 2SC2458
C99 0.022 CK
C39 10/16
R45 12
IC 3 LM7000
X1 7.2MHz
C37 CC 15p
C38 CC 15p
C73 47/16
C60 0.01 CK
R46 10k
FM
MW
LW
TR11 DTA144ES
TR9 DTA144ES
TR10 DTA144ES
D10 ISS 270A
D9 ISS270A
STRQ
CE2
CLK2
DATA2
STOP
C40 0.01 CK
TR12 2SC2458
R48 220k
R47 1k
R49 10k
R51 10k
R50 22k
TR13 2SC2458
C19 0.022 CK
LPF2 ANT. B.F
C31 560p CQ
SIGNAL
D8 ISS270A
R25 100k
C24 3.3/50
C26 10/16
CF3 CS8456F 11
R22 1k
C25 0.47/50
R23 68k
C27 V50
VR1 22k
IC 2 LA3410
R28 3.3k
R21 47 (NB)
C29 47/16
C30 10/16 (BP)
C32 330p CC
R29 75k
R30 75k
C34 680p CC
C33 680p CC
R31 3.3k
R33 75k
R34 75k
R32 3.3k
C28 0.047 CK

FMIF(A)
FMIF(B)
R41 2.7k
F-MUTE
CE
DATA
CLK
V-UP
V-DOWN
IC12
HD404729FS
X2 4MHz
R325 1M
KR2
KR1
D333 ISS270A E-R(S)
D336 ISS270A EX
ISS270A EX-PHONO
C8 3.3/50
C9 100p CC
R12 82
C23 15p CC
CF4 8FU 450C4
A1267
R14 27k
D6 ISS 270A
TP1 KR-PH
R13 5.6k
C18 10/16
R16 10k
C20 0.01 CK
R8 470
R18 3.3k
C22 0.1 CK
C16 3.3/50
R17 10k
C21 0.015 CK
D7 ISS 270A
R19 22k
R70 47k
R52 68k
R24 2.2k
R20 47k
TR19 DTC144ES
D8 ISS270A
R25 100k
C63 1800p
TR20 2SC2458
C61 2700p
C65 1200p
R71 12k
R73 5.6k
C67 0.47/25
R75 47k
R77 470
R79 470
TR15 2SC2458
TR17 2SC2458
R81 4.7k
R83 4.7k
C64 1800p
TR21 2SC2458
C68 0.47/25
R72 12k
R76 47k
R78 470
R80 470
TR16 2SC2458
TR18 2SC2458
C62 2700p
C66 1200p
R74 5.6k
C69 47/10
R82 4.7k
R84 4.7k
TR14 DTA144ES
MUTE
VR1 22k
C28 0.047 CK
C34 680p CC
R32 3.3k
STBY
-20dB
POWER OFF
VOL PASS
NC
TXD
RELAY
MUTE
MODE
RXD
50/60
SIGNAL
TUNE
Vdd
CLK2
STRQ
DATA2
CE2
INH1
CK1
PRE
TEST
CL2
CL1
GND
OSC1
OSC2
KR1
KR0
RM1
SP PROT
DATA1
CE1
R340 47k
R337 47k
R338 47k
R339 47k
R321 1k
R322 10k
D310 HZS3A-1
TR312 2SC2458
C301 47/10
R323 10k
R324 10k
C302 47/10
D311 ISS270A
IC109 M5230L
R255 1M
TR251 2SD667
R253 560
R251 1 NB
C259 1/50
R254 20k
C257 10/35
C256 470/35
C258 10/25
R256 3.3k
C260 10/25
R252 1 NB
R257 560
C261 10/35
R259 15k
TR252 2SB647
R258 15k
TR253 2SC3851
C263 10/25
R261 560
R260 4.7 (1W)
C264 10/50
C262 10/25
C266 10/16
C265 10/16
R267 82 (1W)
R266 150 (2W)
R265 6.8 (1W)
R263 6.8 (1W)
R268 6.8 (1W)
C267 10/16
R264 6.8 (1W)
R262 6.8 (1W)
R269 6.8 (1W)
TR254 2SC3851
R281 2.2k
C268 10/16
D256 HZS9B-1
IC110 78M06
R270 5.6 (1W)
R271 180 (1W)
D257 ISS270
C271 470/10
C270 10/16
C269 10/25
R275 10k
D258 ISS270
D259 ISS270
R272 47k
TR257 DTC144ES
TR255 DTC144ES
R280 120 (1W)
RL1
R278 2.2k
R279 2.2k
TR258 2SC1815
D260 ISS270
TR259 2SC2458
R274 10k
C272 0.1
R273 10k
C251 0.01
D251
C252 0.01
D252
C253 0.01
D253
C254 0.01
D254 ISR139-200x4
CB38
CN38
CN68
P.T
CN28
C991 0.01
AC OUTLET
AC
G
H
J
K
L

IU-2479-3
PB R/P UNIT

PB/REC HEAD
LCH
RCH
E HEAD

IC701 HD140838FP
IC702 M6220FP
IC703 UPC1297CA
IC704 LA2000
IC705 CXA1331M T6
IC706 CXA1198AP

TR701 DTC124EK
TR702 2SK373(Y)
TR703 2SK373(Y)
TR704 DTA114EK
TR705 DTC144EK
TR706 DTC144EK
TR707 DTC144EK
TR708 DTC144EK
TR709 2SC2412K
TR710 2SC2412K
TR711 2SC2412K
TR712 2SC2412K
TR713 DTC114EK
TR714 DTC114EK
TR716 DTC323TK
TR722 2SC1740S (S)
TR723
TR724 DTC114EK
TR725 DTC114EK
TR726 DTC114EK
TR727 DTC114EK
TR728 2SC2412K
TR730 DTC114EK
TR731 DTC114EK
TR761 DTC114EK
TR762 DTC144EK

D701 1SS270A
D702 1SS270A
D703 1SS270A
D704 1SS270A
D705 1SS270A
D706 1SS270A
D707 HZS6A-1
D708 HZ39B-1
D709 HZS9B-1
D710 HZS9B-1
D761 1SS270A
D762 HZS5C-1

L704 10 SG
L706 10mH
L707 HX STEP UP COIL
L708 HX STEP UP COIL

MPX FILTER
DOLBY R/P
PB NUTE
MS PBEQ OUT
EQ 120/70 A0
PLAY 1/2
PLAY I OUT
NORMAL
CR02
Fm METAL CrO2
12P CONN SOCKET
IC703 IN
IC704 IN

CN717
CN719

IU-2479-2
LCD & TACT SW UNIT

IC707
M61131L

VCC IN1 OUT1 REF FILTER NC GND CONT1 P/S CONT2 PR/VC MODE OUT2 IN2

C750 4.7/35
C751 4.7/35
C752 4.7/35

R922 47K
VR709 100K-B
R843 1K
R844 1K
SW701 DOLBY NR SW
OFF

IC708A BA15218F
IC708B BA15218F

R753 2.2K
C753 47/35
R764 33K
C849 1/50
C760 22/25
R916 22K
R757 1K
R766 1K
C757 3.3/50
R767 10K
R769 15K
R773 100
R775 470K
D713 1SS270A
R771 20K
C759 3.3/50
R758 1K
R760 1K
R761 1K
R762 1K
TR717 DTC323TK
TR718 DTC323TK
TR719 DTC323TK
TR720 DTC323TK
C756 3.3/50
R768 10K
R770 15K
R774 100
R776 470K
D714 1SS270A
R772 20K
C758 3.3/50
C764 10/16
C766 10/16

CB706
CB707
CN707
CN708
C8708

C761 10/16
R777 1K
C762 1/50
C763 0.001
R778 47K

IC709
LC7583

X0 X1 COM1 COM2 RI LI DSP1 DSP2 VREF VDD RES TEST2 VSS TEST1 OSC CE CL DI
AD13 AD12 AD11 AD10 AD9 AD8 AD7 AD6 AD5 AD4 AD3 AD2 AD1 S34 S33 S32
S31 S30 S29 S28 S27 S26 S25 S24 OPEN S23 S22 S21 S20 S19 S18 S17
X40 X39 X38 NC NC X27 X26 X25 X24 X23 X22 X21 X20 X19 X18

R940 10K
R941 10K
LED
LD701

S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16
X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 X12 X13 X14 X15 X16 X17
X29 X28

CB719
N5 Q0 Q2 Q1 N6 Q3 Q4 N17 N16 Q5 N18
F0 F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12

R785 2.7 (1/4W)
R784 2.2 (1/4W)
R783 2.2 (1/4W)
R779 2.2 (1/4W)
R781 2.2 (1/4W)
R780 2.2(1/4W)
R782 2.2(1/4W)

CON1 CON2 S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 GND GND AD1 AD3 AD5 AD6 AD8 AD10 AD11 AD12 S27 S28 S29 S30
X0 X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 X12 X13 X14 X15 X16 X17 X18 X19 X20 X21 X22 X23 X24 X25 X26 X27 X28 X29 X30 X31 X32 X33 X34 X35 X36 X37 X38 X39 X40 X41 X42

LCD701
LC08236JP

K30 K31 K32 K33 K34 K35 K10
S0 S1 S2 S3 S4 S5 S10
K0 K1 K2 K3 K4 K5 K10 K20 K21 K22 K23

D715 ISS270A
D716 ISS270A
D717 ISS270A
D718 ISS270A
D719 ISS270A
D720 ISS270A
D721 ISS270A
D722 ISS270A
D723 ISS270A

R836 47K
R837 47K
R838 47K
R839 47K
R840 47K
R841 47K
R842 47K

F.P1 SW703
FF1 SW704
F.P2 SW705
FF2 SW706
C.RESET SW707
TAPE SIZE SW708
R.P1 SW712
REW1 SW711
R.P2 SW710
REW2 SW709
STOP1 SW713
N.DUB SW714
STOP2 SW715
P.ON/OFF SW716
TAPE 1/2 SW717
OP/CL1 SW721
OP/CL2 SW720
REC M2 SW719
CO SRS SW718
SW702 REV MODE

KR0 KR1 KR2 KR3

L 87
R829 10K
VR705 10K-B
R825 5.6K
C791 0.47/50
R827 5.6K
R 86
R828 10K
R824 5.6K
VR706 10K-B
C792 0.47/50
R826 5.6K
B6
D711 1SS270A
C796 1000/6.3
R830 4.7K
R928 1K
TR733 2SC2412K
TR732 2SC2412K
TR734 DTA114EK
TR735 DTC323TK
R831 10K

TR736 DTC114EK
TR737 DTC144EK
TXD
R832 47K
R833 47K
R834 47K
JK702 MINI JACK
TR738 DTC144EK
D725 HZS6C-1
D724 HZS6C-1

N9 N8

IC714 NJM78M12FA
+23.7V
-6.0V
D746

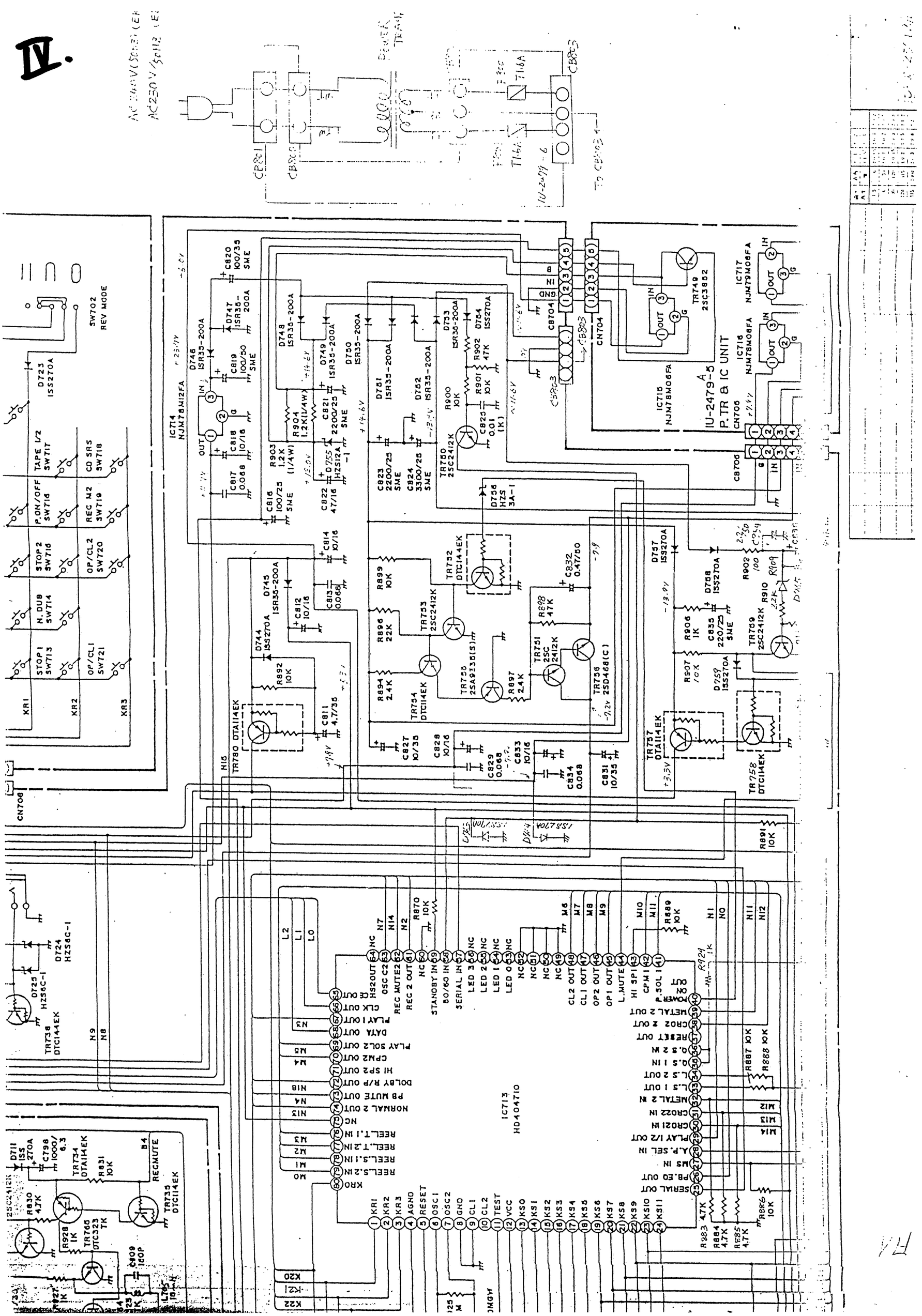
AC 240V (50HZ) (EK)
AC230V/50HZ (E2)

IU-2479A-3
PB R/P UNIT

C766 100P
C768 470P
L708 HX STEP UP COIL
C770 0.047
C772 820P
C774 0.01
C776 0.047
C778 0.022
IC703 UPC1297CA
VR708 47K-B
R795 22K
C782 10P
C781 0.0082
C8703
L709 OSC COIL
TR721 2SC1740S (S)
TR722 2SC1740S (S)
C783 0.022
R786 18K
C784 0.0027
R787 4.7 FU (1/4W)
TR723 2SB562(C)
R788 22 FU (1/4W)
C785 220/25 SME
R789 22 FU (1/4W)
R790 10K
R791 4.7K
TR724 DTC114EK
R792 10K
C837 10/16
R737 10K
TR725 DTC114EK
C839 10/16
TR726 DTC114EK
TR727 DTC114EK
D709 HZS98-1
D710 HZS98-1
NORMAL
C02
IC704 LA2000
VCC NC NC OUT GND NC NF TIM IN
A9
A8
OSC CONT
A7
MS IN
B0
B1
B2
B3
IC706 CXA1198AP
R818 200K
R819 68K
R820 150K
C797 100/10
C794 4.7/35
C796 4.7/35
Fm METAL
Cr02
NORMAL
TR730 DTC114EK
TR731 DTC114EK
R926 1K
R927 1K
C810 150P
TR764 DTC323 TK
TR729 DTC114EK
R948 15K
R949 15K
C846 330P
C847 330P
L706 15mH
L705 10
12P CONN SOCKET
CN717
8P CONN SOCKET
CN718
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9
B0 B1 B2 B3 B4 B5 B6 B7
C8717 12P CONN BASE
C8718 8P CONN BASE
N0 N1 N2 N3 N4 N5 N6 N7 N8 N9 N10 N11 N12 N13 N14 N15 N16 N17
D762 HZS5C-1

R944 22(1W) NB
R945 22 NB(1W)
IC710 BA6209
OUT 2 VZ 2 VCC 2 VCC 1 RIN FIN VR VZ 1 OUT 1 GND
C800 0.1(Z)
R845 22(1W) NB
D726 HZS 7C-1
R846 1K
R847 1K
D727 HZS4B-1
D728 ISS270A
C799 0.1(Z)
D729 ISS270A
D730 ISR35 -200A
TR739 2SB562(C)
R850 10K
R851 560(1/4W)
TR740 DTC114TK
R852 10K
R853 560(1/4W)
TR741 2SB562(C)
TR742 DTC114TK
R848 30K
R849 10K
D731 ISS270A
D732 ISS270A
D733 ISS270A
D734 ISS270A
HAF1
COM 1
H.REV 1
MOD 1
CROM 1
H.FW 1
R864 10K
R865 30K
IC711 BA6209
C803 0.1(Z)
R856 22 NB (1W)
D736 HZS 7C-1
R857 1K
R858 1K
D735 HZS4B-1
C802 0.1(Z)
+D737 ISR35 -200A
R859 30K
R860 10K
TR743 2SB562(C)
R861 10K
R862 560(1/4W)
TR744 DTC114TK
R863 10K
R864 560 (1/4W)
TR745 2SB562(C)
TR746 DTC114TK
D738 ISS270A
D739 ISS270A
D740 ISS270A
D741 ISS270A
R866 30K
R865 10K
IC712 M62005L
VCC CD RESET INT GND
R933 2.2K
R934 2.2K
R935 2.2K
R936 2.2K
C807 0.47/50
C808 0.1(Z)
TR766 DTC114EK
R919 1K
TR763 DTC144EK
R938 10K
R925 1M
CF701 CST4.00MGW
D742 ISR35-200A
C805 1000/6.3 SMG
C806 0.01 (Z)
R871 R872 R873 R874 R875 R876 R877 R878 R879 R880 R881 R882
R871~R882 47K
D743 ISS270A
K23 K22 K21 K20 K0 K1 K2 K3 K4 K5 K6 K7 K8
M9 M7 M11 M10 M1 M14 M3 M6 M8 M5 M4 M0 M13 M2 M12
C8710 C8711 C8712 C8713
OUT GND
IN OUT LOAD 1
IN OUT LOAD 2
HALF 1
MODE 1
CROM 1
LOAD 2 MOTOR
KU-9246-2
supply MOTOR 1
take up
MOTOR
KU-9246-2
supply MOTOR 2
take up
REC-F
HALF
METAL
MODE
REC-R
CRO
F
G
H
J
K

IV.


IU-2479-5
P.TR & IC UNIT
IC713
HD404710
IC714 NJM78N12FA
IC715 NJM78M06FA
IC716 NJM78M06FA
IC717 NJM79M06FA
TR749 2SC3852
TR750 2SC2412K
TR751 2SC 2412K
TR752 DTC144EK
TR753 2SC2412K
TR754 DTC114EK
TR755 2SA933S(S)
TR756 2SD468(C)
TR757 DTA114EK
TR758 DTC114EK
TR759 2SC2412K
TR780 DTA114EK
TR734 DTA114EK
TR735 DTC114EK
TR736 DTC144EK
TR738 DTC144EK
TR765 DTC323 TK
D711 1SS270A
D723 1SS270A
D724 HZS6C-1
D725 HZS6C-1
D735 HZS 3A-1
D744 1SS270A
D745 1SR35-200A
D746 1SR35-200A
D747 1SR35-200A
D748 1SR30-200A
D749 1SR35-200A
D750 1SR35-200A
D751 1SR35-200A
D752 1SR35-200A
D753 1SR30-200A
D754 1SS270A
D755 HZS12A -1
D757 1SS270A
D758 1SS270A
D759 1SS270A
SW702 REV MODE
STOP1 SW713
STOP2 SW716
OP/CL1 SW721
OP/CL2 SW720
N.DUB SW714
P.ON/OFF SW716
REC N2 SW719
TAPE 1/2 SW717
CD SRS SW718
REC/MUTE
CN704
CN705
CN706
CN708
CB704
CB705
CB706
CB803
CB804
CB805
CB806
CB807
CB808
CB809
CB810
CB811
CB812
CB813
CB814
CB815
CB816
CB817
CB818
CB819
CB820
CB821
CB822
CB823
CB824
CB825
CB826
CB827
CB828
CB829
CB831
CB832
CB833
CB834
R887 10K
R888 10K
R889 10K
R891 10K
R892 10K
R894 2.4K
R896 22K
R897 2.4K
R898 47K
R899 10K
R900 10K
R901 10K
R902 47K
R903 1.2K (1/4W)
R904 1.2K(1/4W)
R906 1K
R907 10K
R910 22K
R924 1K
R927 1K
R928 1K
R830 4.7K
R831 10K
R870 10K
R883 4.7K
R884 4.7K
R885 4.7K
R886 10K
C796 1000/6.3
C809 100P
C811 4.7/35
C812 10/16
C813 0.068
C814 10/16
C816 100/25 SNE
C817 0.068
C818 10/16
C819 100/50 SNE
C820 100/35 SNE
C821 2200/25 SNE
C822 47/16
C823 2200/25 SNE
C824 3300/25 SNE
C825 0.01 (K)
C827 10/35
C828 10/16
C829 0.068
C831 10/35
C832 0.47/50
C833 10/16
C834 0.068
AC 230V/50Hz
AC 230V/60Hz
POWER TRANS
F3.15A
T1.6A
IU-2479-6
To CB803

II.

IU-2477-1

T.P

TR403
2SC3855
(O/P/Y)(Z)

R431
10k

R411
0.47(1W)

R427
0.47
(1W)

R469
0.47(1W)

R429
0.47
(1W)

TR405
2SC3855
(O/P/Y)(Z)

C403
1/50

R403
1k

Lch

Input

Rch

C401
100p

R401
100k

C499
0.01

C402
100p

C413
100p

IC401
μPC1225I-1

C421
150p/500V

C423
0.033
(MRZ)

C415
24p

C477
5p

C419
10/16

R409
56k

TR401
2SC1815(BL)

R407
3.3k

C417
0.01

R421
110

R413
1k

D405
ISS270A

R419
510

R417
470

C407
100/6.3

C405
100p

R405
56k

C406
100p

R406
56k

C408
100/6.3

R418
470

R414
1k

D406
ISS270A

R420
510

C418
0.01

R422
110

R408
3.3k

TR402
2SC1815(BL)

TR452
2SB1328(P)

R502

R458 1(NB)
2.0K
(NB)

C454
1/100

C458
10/63

ZD452
HZS18-1.

C425
10/63

ZD454
HZS16-1

ZD453
HZS16-1

C455
1/100

C457
10/63

C426
10/63

ZD451
HZS18-1

R457
2.0K
(NB)

TR451
2SD2004(P)

R501
1(NB)

R410
56k

C420
10/16

C478
5p

C416
24p

TR406
2SA1491
(O/P/Y)(Z)

R470
0.47(1W)

R430
0.47
(1W)

R412
0.47(1W)

R428
0.47
(1W)

R432
10k

TR404
2SC3851
(O/P/Y)(Z)

C404
1/50

R404
1k

C414
100p

IC402
μPC1225H

C424
0.033
(MRZ)

C422
150p/500V

R433
2k
(NB)

D407
ISS270A

R437
4.3k

R438
4.3k

D408
ISS270A

R434
2k
(NB)

+33.0V
-53.0V
+180mV
+195mV
+525mV

ア) 正面パネルの VR401 は使用せず。J401, 402, 403, 404 が接続している。
イ) 仕様によっては、VR403 は使用しないが、J405, 406 は接続している。
(NB は、ノンバーの意味で、安定抵抗 とは、無関係)

III.

CN405 IU-2477-4

CB405

R445 180(1W) R447 180(1W)

R446 180(1W) R448 180(1W) C433 0.01 C434 0.01

HEAD PHONES

SPEAKER LEFT RIGHT

RL401

R439 22k

TR407 2SC1841 (E/F)

R433 2k (NB)

L401 1μH

R441 4.7

R467 R468 560 (1W)

R443 39k

R466 220k R464 3.3K (1W)

D422 ISS 270A R462 4.7

TR420 2SA1048(GR)

TR421 2SC 2458 (BL)

TR424 2SC2240 (BL/GR)

ZD401 HZS7B-1

D421 ISS 270A

R449 4.7k

R461 10k

R444 39k

TR422 2SC2458 (BL)

TR419 2SC 2878

R476 150k

TR425 2SC2240 (BL/GR)

SC401 SFORIA42

R450 4.7k

C451 330/63

C453 100/10

R482 36k

C429 0.1

R437 4.3k

R465 1k

TR423 2SA970 (BL/GR)

R463 1.5 k

C465 10/50

C441 1/50

ZD410 HZS16-1

C440 0.01

R452 470

R435 10(1W)

C452 0.01

R471 10k

R483 1k R485 1k

R464 1k R486 510

R459 100K

C490 10/16

CN2B

SUPER WOOFER OUTPUT

CN2A

IU-2477-6

R436 10(1W)

R438 +3k

R473 330k R472 330k R474 27k

C462 2.2/50 C463 2.2/50

TR471 2SC2458 (BL)

TR472 2SC2458 (BL)

R480 470

CN3A CN3B

R454 510

LD402 LD401 SLP-171E ×2

IU-2477-3

D423 ISS270A D424 ISS270A

C430 0.1

R442 4.7

C474 2.2/100

D443 ISR35-200A D442 /SR35-200A

C475 0.22/250

CB401

AC 230V/50 AC 240V/50

R434 2k (NB)

L402 1μH

TR408 2SC1841 (E/F)

C471 8200/6.3

D441 S4VB-20

F402 T1.6A

IU-2477-2

C476 0.01/400

S402

POWER SWITCH

R440 22k

C472 8200/6.3

CB404 T-401 CB406 CB402

		正式図発行	PS2-225 4-8-20		
ゾーン	記号	内容	指図書番号	日付	

曲ゲ角度	区角	± 1°	± 2°	
	他	±1.5°	± 3°	
0.5	6	±0.05	±0.1	
6	30	±0.1	±0.2	
30	120	±0.15	±0.3	
120	315	±0.2	±0.5	
315	1000	±0.3	±0.8	
1000	2000	±0.5	±1.2	
ヲ超エ	以下	I	II	
寸法区分		許容差		

材質 —	寸度 —	表面処理 —	特ニ指定ノナイ許容差ハ上表ニヨル
承認	検図	製図	設計
尺度 ÷	品名 WIRING DIAGR		
単位・mm	日本コロムビア株式会社	品番(図番) A	+405

XPO250 E2/EK

使用先モデル名

見格

見本

承認図